

10/561097

IAP20 Rec'd PCT/PTO 16 DEC 2005

SEQUENCE LISTING

<110> BAKER, Matthew
WATKINS, John

<120> THROMBOPOIETIN PROTEINS WITH IMPROVED
PROPERTIES

<130> MER-141

<140> Unknown
<141> - -

<150> PCT/US2004/006887
<151> 2004-06-25

<150> EP 03014331.7
<151> 2003-06-26

<160> 138

<170> FastSEQ for Windows Version 4.0

<210> 1
<211> 174
<212> PRT
<213> Artificial Sequence

<220>
<223> Modified human TPO

<221> VARIANT
<222> 50, 51, 55, 58
<223> X=A or E;
X=S or W;
X=A, T, K, S or M;
X=A or T

<221> VARIANT
<222> 60, 61, 63, 67
<223> X=R or A;
X=A, T or Q;
X=A, T, or I;
X=A, T or V

<221> VARIANT
<222> 69, 71, 72, 161
<223> X=A, T, S or L;
X=A or L;
X=A, S or E;
X=N, A, T, R, E, D, G, H, P, K, Q or V

<221> VARIANT
<222> 162
<223> X=A or P

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<400> 1
Ser Pro Ala Pro Pro Ala Cys Asp Leu Arg Val Leu Ser Lys Leu Leu
1 5 10 15
Arg Asp Ser His Val Leu His Ser Arg Leu Ser Gln Cys Pro Glu Val
20 25 30
His Pro Leu Pro Thr Pro Val Leu Leu Pro Ala Val Asp Phe Ser Leu
35 40 45
Gly Xaa Xaa Lys Thr Gln Xaa Glu Glu Xaa Lys Xaa Xaa Asp Xaa Leu
50 55 60
Gly Ala Xaa Thr Xaa Leu Xaa Xaa Gly Val Met Ala Ala Arg Gly Gln
65 70 75 80
Leu Gly Pro Thr Cys Leu Ser Ser Leu Leu Gly Gln Leu Ser Gly Gln
85 90 95
Val Arg Leu Leu Leu Gly Ala Leu Gln Ser Leu Leu Gly Thr Gln Leu
100 105 110
Pro Pro Gln Gly Arg Thr Thr Ala His Lys Asp Pro Asn Ala Ile Phe
115 120 125
Leu Ser Phe Gln His Leu Leu Arg Gly Lys Val Arg Phe Leu Met Leu
130 135 140
Val Gly Gly Ser Thr Leu Cys Val Arg Arg Ala Pro Pro Thr Thr Ala
145 150 155 160
Xaa Xaa Ser Arg Thr Ser Leu Val Leu Thr Leu Asn Glu Leu
165 170

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<210> 2
<211> 27
<212> PRT
<213> homo sapiens

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<400> 2
Gly Glu Trp Lys Thr Gln Met Glu Glu Thr Lys Ala Gln Asp Ile Leu
1 5 10 15
Gly Ala Val Thr Leu Leu Glu Gly Val Met
20 25

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<210> 3
<211> 15
<212> PRT
<213> homo sapiens

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<400> 3
Pro Thr Thr Ala Val Pro Ser Arg Thr Ser Leu Val Leu Thr Leu
1 5 10 15

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<210> 4
<211> 332
<212> PRT
<213> homo sapiens

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<400> 4
Ser Pro Ala Pro Pro Ala Cys Asp Leu Arg Val Leu Ser Lys Leu Leu
1 5 10 15
Arg Asp Ser His Val Leu His Ser Arg Leu Ser Gln Cys Pro Glu Val
20 25 30
His Pro Leu Pro Thr Pro Val Leu Leu Pro Ala Val Asp Phe Ser Leu

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      35          40          45
Gly Glu Trp Lys Thr Gln Met Glu Glu Thr Lys Ala Gln Asp Ile Leu
50          55          60
Gly Ala Val Thr Leu Leu Glu Gly Val Met Ala Ala Arg Gly Gln
65          70          75          80
Leu Gly Pro Thr Cys Leu Ser Ser Leu Leu Gly Gln Leu Ser Gly Gln
85          90          95
Val Arg Leu Leu Leu Gly Ala Leu Gln Ser Leu Leu Gly Thr Gln Leu
100          105          110
Pro Pro Gln Gly Arg Thr Thr Ala His Lys Asp Pro Asn Ala Ile Phe
115          120          125
Leu Ser Phe Gln His Leu Leu Arg Gly Lys Val Arg Phe Leu Met Leu
130          135          140
Val Gly Gly Ser Thr Leu Cys Val Arg Arg Ala Pro Pro Thr Thr Ala
145          150          155          160
Val Pro Ser Arg Thr Ser Leu Val Leu Thr Leu Asn Glu Leu Pro Asn
165          170          175
Arg Thr Ser Gly Leu Leu Glu Thr Asn Phe Thr Ala Ser Ala Arg Thr
180          185          190
Thr Gly Ser Gly Leu Leu Lys Trp Gln Gln Gly Phe Arg Ala Lys Ile
195          200          205
Pro Gly Leu Leu Asn Gln Thr Ser Arg Ser Leu Asp Gln Ile Pro Gly
210          215          220
Tyr Leu Asn Arg Ile His Glu Leu Leu Asn Gly Thr Arg Gly Leu Phe
225          230          235          240
Pro Gly Pro Ser Arg Arg Thr Leu Gly Ala Pro Asp Ile Ser Ser Gly
245          250          255
Thr Ser Asp Thr Gly Ser Leu Pro Pro Asn Leu Gln Pro Gly Tyr Ser
260          265          270
Pro Ser Pro Thr His Pro Pro Thr Gly Gln Tyr Thr Leu Phe Pro Leu
275          280          285
Pro Pro Thr Leu Pro Thr Pro Val Val Gln Leu His Pro Leu Leu Pro
290          295          300
Asp Pro Ser Ala Pro Thr Pro Thr Pro Thr Ser Pro Leu Leu Asn Thr
305          310          315          320
Ser Tyr Thr His Ser Gln Asn Leu Ser Gln Glu Gly
325          330

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<210> 5
 <211> 7
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Linker peptide

<400> 5
 Gly Ser Gly Ser Gly Ser Gly
 1 5

<210> 6
 <211> 174
 <212> PRT
 <213> Artificial Sequence

<220>

<223> Modified human TPO

<400> 6

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Ser Pro Ala Pro Pro Ala Cys Asp Leu Arg Val Leu Ser Lys Leu Leu
 1          5          10          15
Arg Asp Ser His Val Leu His Ser Arg Leu Ser Gln Cys Pro Glu Val
 20          25          30
His Pro Leu Pro Thr Pro Val Leu Leu Pro Ala Val Asp Phe Ser Leu
 35          40          45
Gly Glu Trp Lys Thr Gln Met Glu Glu Thr Lys Arg Gln Asp Ile Leu
 50          55          60
Gly Ala Val Thr Leu Leu Leu Glu Gly Val Met Ala Ala Arg Gly Gln
 65          70          75          80
Leu Gly Pro Thr Cys Leu Ser Ser Leu Leu Gly Gln Leu Ser Gly Gln
 85          90          95
Val Arg Leu Leu Leu Gly Ala Leu Gln Ser Leu Leu Gly Thr Gln Leu
 100          105          110
Pro Pro Gln Gly Arg Thr Thr Ala His Lys Asp Pro Asn Ala Ile Phe
 115          120          125
Leu Ser Phe Gln His Leu Leu Arg Gly Lys Val Arg Phe Leu Met Leu
 130          135          140
Val Gly Gly Ser Thr Leu Cys Val Arg Arg Ala Pro Pro Thr Thr Ala
 145          150          155          160
Ala Pro Ser Arg Thr Ser Leu Val Leu Thr Leu Asn Glu Leu
 165          170

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<210> 7

<211> 174

<212> PRT

<213> Artificial Sequence

<220>

<223> Modified human TPO

<400> 7

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Ser Pro Ala Pro Pro Ala Cys Asp Leu Arg Val Leu Ser Lys Leu Leu
 1          5          10          15
Arg Asp Ser His Val Leu His Ser Arg Leu Ser Gln Cys Pro Glu Val
 20          25          30
His Pro Leu Pro Thr Pro Val Leu Leu Pro Ala Val Asp Phe Ser Leu
 35          40          45
Gly Glu Trp Lys Thr Gln Met Glu Glu Thr Lys Ala Gln Asp Ala Leu
 50          55          60
Gly Ala Thr Thr Leu Leu Leu Glu Gly Val Met Ala Ala Arg Gly Gln
 65          70          75          80
Leu Gly Pro Thr Cys Leu Ser Ser Leu Leu Gly Gln Leu Ser Gly Gln
 85          90          95
Val Arg Leu Leu Leu Gly Ala Leu Gln Ser Leu Leu Gly Thr Gln Leu
 100          105          110
Pro Pro Gln Gly Arg Thr Thr Ala His Lys Asp Pro Asn Ala Ile Phe
 115          120          125
Leu Ser Phe Gln His Leu Leu Arg Gly Lys Val Arg Phe Leu Met Leu
 130          135          140
Val Gly Gly Ser Thr Leu Cys Val Arg Arg Ala Pro Pro Thr Thr Ala
 145          150          155          160
Asn Ala Ser Arg Thr Ser Leu Val Leu Thr Leu Asn Glu Leu
 165          170

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<210> 8
 <211> 174
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Modified human TPO

<400> 8
 Ser Pro Ala Pro Pro Ala Cys Asp Leu Arg Val Leu Ser Lys Leu Leu
 1 5 10 15
 Arg Asp Ser His Val Leu His Ser Arg Leu Ser Gln Cys Pro Glu Val
 20 25 30
 His Pro Leu Pro Thr Pro Val Leu Leu Pro Ala Val Asp Phe Ser Leu
 35 40 45
 Gly Glu Trp Lys Thr Gln Met Glu Glu Thr Lys Ala Gln Asp Thr Leu
 50 55 60
 Gly Ala Ala Thr Leu Leu Leu Glu Gly Val Met Ala Ala Arg Gly Gln
 65 70 75 80
 Leu Gly Pro Thr Cys Leu Ser Ser Leu Leu Gly Gln Leu Ser Gly Gln
 85 90 95
 Val Arg Leu Leu Leu Gly Ala Leu Gln Ser Leu Leu Gly Thr Gln Leu
 100 105 110
 Pro Pro Gln Gly Arg Thr Thr Ala His Lys Asp Pro Asn Ala Ile Phe
 115 120 125
 Leu Ser Phe Gln His Leu Leu Arg Gly Lys Val Arg Phe Leu Met Leu
 130 135 140
 Val Gly Gly Ser Thr Leu Cys Val Arg Arg Ala Pro Pro Thr Thr Ala
 145 150 155 160
 Asn Ala Ser Arg Thr Ser Leu Val Leu Thr Leu Asn Glu Leu
 165 170

<210> 9
 <211> 174
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Modified human TPO

<400> 9
 Ser Pro Ala Pro Pro Ala Cys Asp Leu Arg Val Leu Ser Lys Leu Leu
 1 5 10 15
 Arg Asp Ser His Val Leu His Ser Arg Leu Ser Gln Cys Pro Glu Val
 20 25 30
 His Pro Leu Pro Thr Pro Val Leu Leu Pro Ala Val Asp Phe Ser Leu
 35 40 45
 Gly Glu Trp Lys Thr Gln Ala Glu Glu Thr Lys Ala Gln Asp Ala Leu
 50 55 60
 Gly Ala Ala Thr Leu Leu Leu Glu Gly Val Met Ala Ala Arg Gly Gln
 65 70 75 80
 Leu Gly Pro Thr Cys Leu Ser Ser Leu Leu Gly Gln Leu Ser Gly Gln
 85 90 95
 Val Arg Leu Leu Leu Gly Ala Leu Gln Ser Leu Leu Gly Thr Gln Leu
 100 105 110
 Pro Pro Gln Gly Arg Thr Thr Ala His Lys Asp Pro Asn Ala Ile Phe

	115				120				125
Leu	Ser	Phe	Gln	His	Leu	Leu	Arg	Gly	Lys
	130					135			140
Val	Gly	Gly	Ser	Thr	Leu	Cys	Val	Arg	Arg
	145				150			155	160
Ala	Pro	Ser	Arg	Thr	Ser	Leu	Val	Leu	Thr
			165					170	Asn
									Glu
									Leu

<210> 10
 <211> 174
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Modified human TPO

Ser	Pro	Ala	Pro	Pro	Ala	Cys	Asp	Leu	Arg	Val	Leu	Ser	Lys	Leu	Leu				
1				5					10					15					
Arg	Asp	Ser	His	Val	Leu	His	Ser	Arg	Leu	Ser	Gln	Cys	Pro	Glu	Val				
			20					25					30						
His	Pro	Leu	Pro	Thr	Pro	Val	Leu	Leu	Pro	Ala	Val	Asp	Phe	Ser	Leu				
		35					40					45							
Gly	Glu	Trp	Lys	Thr	Gln	Thr	Glu	Glu	Thr	Lys	Ala	Gln	Asp	Ala	Leu				
	50				55				60										
Gly	Ala	Ala	Thr	Leu	Leu	Glu	Gly	Val	Met	Ala	Ala	Arg	Gly	Gln					
65				70				75					80						
Leu	Gly	Pro	Thr	Cys	Leu	Ser	Ser	Leu	Leu	Gly	Gln	Leu	Ser	Gly	Gln				
			85					90					95						
Val	Arg	Leu	Leu	Gly	Ala	Leu	Gln	Ser	Leu	Leu	Gly	Thr	Gln	Leu					
		100					105					110							
Pro	Pro	Gln	Gly	Arg	Thr	Thr	Ala	His	Lys	Asp	Pro	Asn	Ala	Ile	Phe				
		115					120					125							
Leu	Ser	Phe	Gln	His	Leu	Leu	Arg	Gly	Lys	Val	Arg	Phe	Leu	Met	Leu				
		130				135					140								
Val	Gly	Gly	Ser	Thr	Leu	Cys	Val	Arg	Arg	Ala	Pro	Pro	Thr	Thr	Ala				
145					150				155					160					
Ala	Pro	Ser	Arg	Thr	Ser	Leu	Val	Leu	Thr	Leu	Asn	Glu	Leu						
					165				170										

<210> 11
 <211> 174
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Modified human TPO

Ser	Pro	Ala	Pro	Pro	Ala	Cys	Asp	Leu	Arg	Val	Leu	Ser	Lys	Leu	Leu				
1				5					10					15					
Arg	Asp	Ser	His	Val	Leu	His	Ser	Arg	Leu	Ser	Gln	Cys	Pro	Glu	Val				
			20					25					30						
His	Pro	Leu	Pro	Thr	Pro	Val	Leu	Leu	Pro	Ala	Val	Asp	Phe	Ser	Leu				
		35					40					45							
Gly	Glu	Trp	Lys	Thr	Gln	Thr	Glu	Glu	Thr	Lys	Ala	Gln	Asp	Thr	Leu				

```

      50      55      60
Gly Ala Ala Thr Leu Leu Glu Gly Val Met Ala Ala Arg Gly Gln
65      70      75      80
Leu Gly Pro Thr Cys Leu Ser Ser Leu Leu Gly Gln Leu Ser Gly Gln
      85      90      95
Val Arg Leu Leu Leu Gly Ala Leu Gln Ser Leu Leu Gly Thr Gln Leu
      100      105      110
Pro Pro Gln Gly Arg Thr Thr Ala His Lys Asp Pro Asn Ala Ile Phe
      115      120      125
Leu Ser Phe Gln His Leu Leu Arg Gly Lys Val Arg Phe Leu Met Leu
      130      135      140
Val Gly Gly Ser Thr Leu Cys Val Arg Arg Ala Pro Pro Thr Thr Ala
145      150      155      160
Ala Pro Ser Arg Thr Ser Leu Val Leu Thr Leu Asn Glu Leu
      165      170

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<210> 12
 <211> 174
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Modified human TPO

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<400> 12
Ser Pro Ala Pro Pro Ala Cys Asp Leu Arg Val Leu Ser Lys Leu Leu
1      5      10      15
Arg Asp Ser His Val Leu His Ser Arg Leu Ser Gln Cys Pro Glu Val
      20      25      30
His Pro Leu Pro Thr Pro Val Leu Leu Pro Ala Val Asp Phe Ser Leu
      35      40      45
Gly Glu Trp Lys Thr Gln Met Glu Glu Thr Lys Ala Ala Asp Ala Leu
      50      55      60
Gly Ala Ala Thr Leu Leu Leu Glu Gly Val Met Ala Ala Arg Gly Gln
65      70      75      80
Leu Gly Pro Thr Cys Leu Ser Ser Leu Leu Gly Gln Leu Ser Gly Gln
      85      90      95
Val Arg Leu Leu Leu Gly Ala Leu Gln Ser Leu Leu Gly Thr Gln Leu
      100      105      110
Pro Pro Gln Gly Arg Thr Thr Ala His Lys Asp Pro Asn Ala Ile Phe
      115      120      125
Leu Ser Phe Gln His Leu Leu Arg Gly Lys Val Arg Phe Leu Met Leu
      130      135      140
Val Gly Gly Ser Thr Leu Cys Val Arg Arg Ala Pro Pro Thr Thr Ala
145      150      155      160
Ala Pro Ser Arg Thr Ser Leu Val Leu Thr Leu Asn Glu Leu
      165      170

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<210> 13
 <211> 174
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Modified human TPO

<400> 13

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Ser Pro Ala Pro Pro Ala Cys Asp Leu Arg Val Leu Ser Lys Leu Leu
 1      5      10      15
Arg Asp Ser His Val Leu His Ser Arg Leu Ser Gln Cys Pro Glu Val
 20     25     30
His Pro Leu Pro Thr Pro Val Leu Leu Pro Ala Val Asp Phe Ser Leu
 35     40     45
Gly Glu Trp Lys Thr Gln Met Glu Glu Thr Lys Ala Ala Asp Thr Leu
 50     55     60
Gly Ala Ala Thr Leu Leu Leu Glu Gly Val Met Ala Ala Arg Gly Gln
 65     70     75
Leu Gly Pro Thr Cys Leu Ser Ser Leu Leu Gly Gln Leu Ser Gly Gln
 85     90     95
Val Arg Leu Leu Leu Gly Ala Leu Gln Ser Leu Leu Gly Thr Gln Leu
100    105    110
Pro Pro Gln Gly Arg Thr Thr Ala His Lys Asp Pro Asn Ala Ile Phe
115    120    125
Leu Ser Phe Gln His Leu Leu Arg Gly Lys Val Arg Phe Leu Met Leu
130    135    140
Val Gly Gly Ser Thr Leu Cys Val Arg Arg Ala Pro Pro Thr Thr Ala
145    150    155    160
Thr Pro Ser Arg Thr Ser Leu Val Leu Thr Leu Asn Glu Leu
      165      170

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<210> 14

<211> 174

<212> PRT

<213> Artificial Sequence

<220>

<223> Modified human TPO

<400> 14

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Ser Pro Ala Pro Pro Ala Cys Asp Leu Arg Val Leu Ser Lys Leu Leu
 1      5      10      15
Arg Asp Ser His Val Leu His Ser Arg Leu Ser Gln Cys Pro Glu Val
 20     25     30
His Pro Leu Pro Thr Pro Val Leu Leu Pro Ala Val Asp Phe Ser Leu
 35     40     45
Gly Glu Trp Lys Thr Gln Met Glu Glu Thr Lys Ala Gln Asp Thr Leu
 50     55     60
Gly Ala Ala Thr Leu Leu Leu Glu Gly Val Met Ala Ala Arg Gly Gln
 65     70     75
Leu Gly Pro Thr Cys Leu Ser Ser Leu Leu Gly Gln Leu Ser Gly Gln
 85     90     95
Val Arg Leu Leu Leu Gly Ala Leu Gln Ser Leu Leu Gly Thr Gln Leu
100    105    110
Pro Pro Gln Gly Arg Thr Thr Ala His Lys Asp Pro Asn Ala Ile Phe
115    120    125
Leu Ser Phe Gln His Leu Leu Arg Gly Lys Val Arg Phe Leu Met Leu
130    135    140
Val Gly Gly Ser Thr Leu Cys Val Arg Arg Ala Pro Pro Thr Thr Ala
145    150    155    160
Thr Pro Ser Arg Thr Ser Leu Val Leu Thr Leu Asn Glu Leu
      165      170

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<210> 15
 <211> 174
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Modified human TPO

<400> 15
 Ser Pro Ala Pro Pro Ala Cys Asp Leu Arg Val Leu Ser Lys Leu Leu
 1 5 10 15
 Arg Asp Ser His Val Leu His Ser Arg Leu Ser Gln Cys Pro Glu Val
 20 25 30
 His Pro Leu Pro Thr Pro Val Leu Leu Pro Ala Val Asp Phe Ser Leu
 35 40 45
 Gly Glu Trp Lys Thr Gln Met Glu Thr Lys Ala Gln Asp Thr Leu
 50 55 60
 Gly Ala Ala Thr Leu Leu Leu Glu Gly Val Met Ala Ala Arg Gly Gln
 65 70 75 80
 Leu Gly Pro Thr Cys Leu Ser Ser Leu Leu Gly Gln Leu Ser Gly Gln
 85 90 95
 Val Arg Leu Leu Leu Gly Ala Leu Gln Ser Leu Leu Gly Thr Gln Leu
 100 105 110
 Pro Pro Gln Gly Arg Thr Thr Ala His Lys Asp Pro Asn Ala Ile Phe
 115 120 125
 Leu Ser Phe Gln His Leu Leu Arg Gly Lys Val Arg Phe Leu Met Leu
 130 135 140
 Val Gly Gly Ser Thr Leu Cys Val Arg Arg Ala Pro Pro Thr Thr Ala
 145 150 155 160
 Ala Pro Ser Arg Thr Ser Leu Val Leu Thr Leu Asn Glu Leu
 165 170

<210> 16
 <211> 174
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Modified human TPO

<400> 16
 Ser Pro Ala Pro Pro Ala Cys Asp Leu Arg Val Leu Ser Lys Leu Leu
 1 5 10 15
 Arg Asp Ser His Val Leu His Ser Arg Leu Ser Gln Cys Pro Glu Val
 20 25 30
 His Pro Leu Pro Thr Pro Val Leu Leu Pro Ala Val Asp Phe Ser Leu
 35 40 45
 Gly Glu Trp Lys Thr Gln Met Glu Glu Thr Lys Ala Gln Asp Ala Leu
 50 55 60
 Gly Ala Ala Thr Leu Leu Leu Glu Gly Val Met Ala Ala Arg Gly Gln
 65 70 75 80
 Leu Gly Pro Thr Cys Leu Ser Ser Leu Leu Gly Gln Leu Ser Gly Gln
 85 90 95
 Val Arg Leu Leu Leu Gly Ala Leu Gln Ser Leu Leu Gly Thr Gln Leu
 100 105 110
 Pro Pro Gln Gly Arg Thr Thr Ala His Lys Asp Pro Asn Ala Ile Phe
 115 120 125

```

Leu Ser Phe Gln His Leu Leu Arg Gly Lys Val Arg Phe Leu Met Leu
130 135 140
Val Gly Gly Ser Thr Leu Cys Val Arg Arg Ala Pro Pro Thr Thr Ala
145 150 155 160
Ala Pro Ser Arg Thr Ser Leu Val Leu Thr Leu Asn Glu Leu
165 170

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<210> 17
 <211> 174
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Modified human TPO

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<400> 17
Ser Pro Ala Pro Pro Ala Cys Asp Leu Arg Val Leu Ser Lys Leu Leu
1 5 10 15
Arg Asp Ser His Val Leu His Ser Arg Leu Ser Gln Cys Pro Glu Val
20 25 30
His Pro Leu Pro Thr Pro Val Leu Leu Pro Ala Val Asp Phe Ser Leu
35 40 45
Gly Glu Trp Lys Thr Gln Met Glu Glu Thr Lys Ala Gln Asp Ala Leu
50 55 60
Gly Ala Ala Thr Leu Leu Leu Glu Gly Val Met Ala Ala Arg Gly Gln
65 70 75 80
Leu Gly Pro Thr Cys Leu Ser Ser Leu Leu Gly Gln Leu Ser Gly Gln
85 90 95
Val Arg Leu Leu Leu Gly Ala Leu Gln Ser Leu Leu Gly Thr Gln Leu
100 105 110
Pro Pro Gln Gly Arg Thr Thr Ala His Lys Asp Pro Asn Ala Ile Phe
115 120 125
Leu Ser Phe Gln His Leu Leu Arg Gly Lys Val Arg Phe Leu Met Leu
130 135 140
Val Gly Gly Ser Thr Leu Cys Val Arg Arg Ala Pro Pro Thr Thr Ala
145 150 155 160
Thr Pro Ser Arg Thr Ser Leu Val Leu Thr Leu Asn Glu Leu
165 170

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<210> 18
 <211> 174
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Modified human TPO

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<400> 18
Ser Pro Ala Pro Pro Ala Cys Asp Leu Arg Val Leu Ser Lys Leu Leu
1 5 10 15
Arg Asp Ser His Val Leu His Ser Arg Leu Ser Gln Cys Pro Glu Val
20 25 30
His Pro Leu Pro Thr Pro Val Leu Leu Pro Ala Val Asp Phe Ser Leu
35 40 45
Gly Glu Trp Lys Thr Gln Met Glu Glu Thr Lys Ala Gln Asp Ala Leu
50 55 60

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-11-

```

Gly Ala Ala Thr Leu Leu Leu Glu Gly Val Met Ala Ala Arg Gly Gln
65      70      75      80
Leu Gly Pro Thr Cys Leu Ser Ser Leu Leu Gly Gln Leu Ser Gly Gln
      85      90      95
Val Arg Leu Leu Leu Gly Ala Leu Gln Ser Leu Leu Gly Thr Gln Leu
      100      105      110
Pro Pro Gln Gly Arg Thr Thr Ala His Lys Asp Pro Asn Ala Ile Phe
      115      120      125
Leu Ser Phe Gln His Leu Leu Arg Gly Lys Val Arg Phe Leu Met Leu
      130      135      140
Val Gly Gly Ser Thr Leu Cys Val Arg Arg Ala Pro Pro Thr Thr Ala
145      150      155      160
Thr Pro Ser Arg Thr Ser Leu Val Leu Thr Leu Asn Glu Leu
      165      170

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<210> 19
 <211> 174
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Modified human TPO

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<400> 19
Ser Pro Ala Pro Pro Ala Cys Asp Leu Arg Val Leu Ser Lys Leu Leu
1      5      10      15
Arg Asp Ser His Val Leu His Ser Arg Leu Ser Gln Cys Pro Glu Val
      20      25      30
His Pro Leu Pro Thr Pro Val Leu Leu Pro Ala Val Asp Phe Ser Leu
      35      40      45
Gly Glu Trp Lys Thr Gln Met Glu Glu Thr Lys Ala Gln Asp Ile Leu
      50      55      60
Gly Ala Ala Thr Leu Leu Leu Glu Gly Val Met Ala Ala Arg Gly Gln
65      70      75      80
Leu Gly Pro Thr Cys Leu Ser Ser Leu Leu Gly Gln Leu Ser Gly Gln
      85      90      95
Val Arg Leu Leu Leu Gly Ala Leu Gln Ser Leu Leu Gly Thr Gln Leu
      100      105      110
Pro Pro Gln Gly Arg Thr Thr Ala His Lys Asp Pro Asn Ala Ile Phe
      115      120      125
Leu Ser Phe Gln His Leu Leu Arg Gly Lys Val Arg Phe Leu Met Leu
      130      135      140
Val Gly Gly Ser Thr Leu Cys Val Arg Arg Ala Pro Pro Thr Thr Ala
145      150      155      160
Arg Pro Ser Arg Thr Ser Leu Val Leu Thr Leu Asn Glu Leu
      165      170

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<210> 20
 <211> 174
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Modified human TPO

<400> 20

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Ser Pro Ala Pro Pro Ala Cys Asp Leu Arg Val Leu Ser Lys Leu Leu
1      5      10      15
Arg Asp Ser His Val Leu His Ser Arg Leu Ser Gln Cys Pro Glu Val
20      25      30
His Pro Leu Pro Thr Pro Val Leu Leu Pro Ala Val Asp Phe Ser Leu
35      40      45
Gly Glu Trp Lys Met Gln Met Glu Glu Thr Lys Ala Gln Asp Ile Leu
50      55      60
Gly Ala Ala Thr Leu Leu Leu Glu Gly Val Met Ala Ala Arg Gly Gln
65      70      80
Leu Gly Pro Thr Cys Leu Ser Ser Leu Leu Gly Gln Leu Ser Gly Gln
85      90      95
Val Arg Leu Leu Leu Gly Ala Leu Gln Ser Leu Leu Gly Thr Gln Leu
100     105     110
Pro Pro Gln Gly Arg Thr Thr Ala His Lys Asp Pro Asn Ala Ile Phe
115     120     125
Leu Ser Phe Gln His Leu Leu Arg Gly Lys Val Arg Phe Leu Met Leu
130     135     140
Val Gly Gly Ser Thr Leu Cys Val Arg Arg Ala Pro Pro Thr Thr Ala
145     150     155     160
Thr Pro Ser Arg Thr Ser Leu Val Leu Thr Leu Asn Glu Leu
165     170

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<210> 21

<211> 174

<212> PRT

<213> Artificial Sequence

<220>

<223> Modified human TPO

<400> 21

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Ser Pro Ala Pro Pro Ala Cys Asp Leu Arg Val Leu Ser Lys Leu Leu
1      5      10      15
Arg Asp Ser His Val Leu His Ser Arg Leu Ser Gln Cys Pro Glu Val
20      25      30
His Pro Leu Pro Thr Pro Val Leu Leu Pro Ala Val Asp Phe Ser Leu
35      40      45
Gly Glu Trp Lys Thr Gln Met Glu Glu Thr Lys Ala Gln Asp Ile Leu
50      55      60
Gly Ala Thr Thr Leu Leu Leu Glu Gly Val Met Ala Ala Arg Gly Gln
65      70      80
Leu Gly Pro Thr Cys Leu Ser Ser Leu Leu Gly Gln Leu Ser Gly Gln
85      90      95
Val Arg Leu Leu Leu Gly Ala Leu Gln Ser Leu Leu Gly Thr Gln Leu
100     105     110
Pro Pro Gln Gly Arg Thr Thr Ala His Lys Asp Pro Asn Ala Ile Phe
115     120     125
Leu Ser Phe Gln His Leu Leu Arg Gly Lys Val Arg Phe Leu Met Leu
130     135     140
Val Gly Gly Ser Thr Leu Cys Val Arg Arg Ala Pro Pro Thr Thr Ala
145     150     155     160
Ala Pro Ser Arg Thr Ser Leu Val Leu Thr Leu Asn Glu Leu
165     170

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<210> 22

<211> 174
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Modified human TPO

<400> 22
 Ser Pro Ala Pro Pro Ala Cys Asp Leu Arg Val Leu Ser Lys Leu Leu
 1 5 10 15
 Arg Asp Ser His Val Leu His Ser Arg Leu Ser Gln Cys Pro Glu Val
 20 25 30
 His Pro Leu Pro Thr Pro Val Leu Leu Pro Ala Val Asp Phe Ser Leu
 35 40 45
 Gly Glu Trp Lys Thr Gln Met Glu Glu Thr Lys Ala Gln Asp Ile Leu
 50 55 60
 Gly Ala Thr Thr Leu Leu Glu Gly Val Met Ala Ala Arg Gly Gln
 65 70 75 80
 Leu Gly Pro Thr Cys Leu Ser Ser Leu Leu Gly Gln Leu Ser Gly Gln
 85 90 95
 Val Arg Leu Leu Leu Gly Ala Leu Gln Ser Leu Leu Gly Thr Gln Leu
 100 105 110
 Pro Pro Gln Gly Arg Thr Thr Ala His Lys Asp Pro Asn Ala Ile Phe
 115 120 125
 Leu Ser Phe Gln His Leu Leu Arg Gly Lys Val Arg Phe Leu Met Leu
 130 135 140
 Val Gly Gly Ser Thr Leu Cys Val Arg Arg Ala Pro Pro Thr Thr Ala
 145 150 155 160
 Thr Pro Ser Arg Thr Ser Leu Val Leu Thr Leu Asn Glu Leu
 165 170

<210> 23
 <211> 174
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Modified human TPO

<400> 23
 Ser Pro Ala Pro Pro Ala Cys Asp Leu Arg Val Leu Ser Lys Leu Leu
 1 5 10 15
 Arg Asp Ser His Val Leu His Ser Arg Leu Ser Gln Cys Pro Glu Val
 20 25 30
 His Pro Leu Pro Thr Pro Val Leu Leu Pro Ala Val Asp Phe Ser Leu
 35 40 45
 Gly Glu Trp Lys Thr Gln Met Glu Glu Thr Lys Ala Gln Asp Ile Leu
 50 55 60
 Gly Ala Ala Thr Leu Leu Leu Glu Gly Val Met Ala Ala Arg Gly Gln
 65 70 75 80
 Leu Gly Pro Thr Cys Leu Ser Ser Leu Leu Gly Gln Leu Ser Gly Gln
 85 90 95
 Val Arg Leu Leu Leu Gly Ala Leu Gln Ser Leu Leu Gly Thr Gln Leu
 100 105 110
 Pro Pro Gln Gly Arg Thr Thr Ala His Lys Asp Pro Asn Ala Ile Phe
 115 120 125
 Leu Ser Phe Gln His Leu Leu Arg Gly Lys Val Arg Phe Leu Met Leu

```

      130              135              140
Val Gly Ser Thr Leu Cys Val Arg Arg Ala Pro Thr Thr Ala
145              150              155              160
Ala Pro Ser Arg Thr Ser Leu Val Leu Thr Leu Asn Glu Leu
              165              170

```

<210> 24
 <211> 174
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Modified human TPO

```

<400> 24
Ser Pro Ala Pro Pro Ala Cys Asp Leu Arg Val Leu Ser Lys Leu Leu
 1          5          10          15
Arg Asp Ser His Val Leu His Ser Arg Leu Ser Gln Cys Pro Glu Val
      20          25          30
His Pro Leu Pro Thr Pro Val Leu Leu Pro Ala Val Asp Phe Ser Leu
 35          40          45
Gly Glu Trp Lys Thr Gln Met Glu Glu Thr Lys Ala Gln Asp Ile Leu
 50          55          60
Gly Ala Ala Thr Leu Leu Leu Glu Gly Val Met Ala Ala Arg Gly Gln
65          70          75          80
Leu Gly Pro Thr Cys Leu Ser Ser Leu Leu Gly Gln Leu Ser Gly Gln
      85          90          95
Val Arg Leu Leu Leu Gly Ala Leu Gln Ser Leu Leu Gly Thr Gln Leu
100          105          110
Pro Pro Gln Gly Arg Thr Thr Ala His Lys Asp Pro Asn Ala Ile Phe
115          120          125
Leu Ser Phe Gln His Leu Leu Arg Gly Lys Val Arg Phe Leu Met Leu
130          135          140
Val Gly Gly Ser Thr Leu Cys Val Arg Arg Ala Pro Pro Thr Thr Ala
145          150          155          160
Glu Pro Ser Arg Thr Ser Leu Val Leu Thr Leu Asn Glu Leu
      165          170

```

<210> 25
 <211> 174
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Modified human TPO

```

<400> 25
Ser Pro Ala Pro Pro Ala Cys Asp Leu Arg Val Leu Ser Lys Leu Leu
 1          5          10          15
Arg Asp Ser His Val Leu His Ser Arg Leu Ser Gln Cys Pro Glu Val
      20          25          30
His Pro Leu Pro Thr Pro Val Leu Leu Pro Ala Val Asp Phe Ser Leu
 35          40          45
Gly Glu Trp Lys Thr Gln Met Glu Glu Thr Lys Ala Gln Asp Thr Leu
 50          55          60
Gly Ala Val Thr Leu Leu Leu Glu Gly Val Met Ala Ala Arg Gly Gln

```

```

65          70          75          80
Leu Gly Pro Thr Cys Leu Ser Ser Leu Leu Gly Gln Leu Ser Gly Gln
85          90          95
Val Arg Leu Leu Leu Gly Ala Leu Gln Ser Leu Leu Gly Thr Gln Leu
100          105          110
Pro Pro Gln Gly Arg Thr Thr Ala His Lys Asp Pro Asn Ala Ile Phe
115          120          125
Leu Ser Phe Gln His Leu Leu Arg Gly Lys Val Arg Phe Leu Met Leu
130          135          140
Val Gly Gly Ser Thr Leu Cys Val Arg Arg Ala Pro Thr Thr Ala
145          150          155          160
Thr Pro Ser Arg Thr Ser Leu Val Leu Thr Leu Asn Glu Leu
165          170

```

<210> 26
 <211> 174
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Modified human TPO

```

<400> 26
Ser Pro Ala Pro Pro Ala Cys Asp Leu Arg Val Leu Ser Lys Leu Leu
1          5          10          15
Arg Asp Ser His Val Leu His Ser Arg Leu Ser Gln Cys Pro Glu Val
20          25          30
His Pro Leu Pro Thr Pro Val Leu Leu Pro Ala Val Asp Phe Ser Leu
35          40          45
Gly Glu Trp Lys Thr Gln Met Glu Glu Thr Lys Ala Gln Asp Thr Leu
50          55          60
Gly Ala Val Thr Leu Leu Leu Glu Gly Val Met Ala Ala Arg Gly Gln
65          70          75          80
Leu Gly Pro Thr Cys Leu Ser Ser Leu Leu Gly Gln Leu Ser Gly Gln
85          90          95
Val Arg Leu Leu Leu Gly Ala Leu Gln Ser Leu Leu Gly Thr Gln Leu
100          105          110
Pro Pro Gln Gly Arg Thr Thr Ala His Lys Asp Pro Asn Ala Ile Phe
115          120          125
Leu Ser Phe Gln His Leu Leu Arg Gly Lys Val Arg Phe Leu Met Leu
130          135          140
Val Gly Gly Ser Thr Leu Cys Val Arg Arg Ala Pro Thr Thr Ala
145          150          155          160
Arg Pro Ser Arg Thr Ser Leu Val Leu Thr Leu Asn Glu Leu
165          170

```

<210> 27
 <211> 174
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Modified human TPO

```

<400> 27
Ser Pro Ala Pro Pro Ala Cys Asp Leu Arg Val Leu Ser Lys Leu Leu

```

```

1           5           10           15
Arg Asp Ser His Val Leu His Ser Arg Leu Ser Gln Cys Pro Glu Val
20 25 30
His Pro Leu Pro Thr Pro Val Leu Leu Pro Ala Val Asp Phe Ser Leu
35 40 45
Gly Glu Trp Lys Thr Gln Met Glu Glu Thr Lys Ala Gln Asp Thr Leu
50 55 60
Gly Ala Val Thr Leu Leu Leu Glu Gly Val Met Ala Ala Arg Gly Gln
65 70 75
Leu Gly Pro Thr Cys Leu Ser Ser Leu Leu Gly Gln Leu Ser Gly Gln
85 90 95
Val Arg Leu Leu Leu Gly Ala Leu Gln Ser Leu Leu Gly Thr Gln Leu
100 105 110
Pro Pro Gln Gly Arg Thr Thr Ala His Lys Asp Pro Asn Ala Ile Phe
115 120 125
Leu Ser Phe Gln His Leu Leu Arg Gly Lys Val Arg Phe Leu Met Leu
130 135 140
Val Gly Gly Ser Thr Leu Cys Val Arg Arg Ala Pro Pro Thr Thr Ala
145 150 155 160
Glu Pro Ser Arg Thr Ser Leu Val Leu Thr Leu Asn Glu Leu
165 170

```

<210> 28
 <211> 174
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Modified human TPO

```

<400> 28
Ser Pro Ala Pro Pro Ala Cys Asp Leu Arg Val Leu Ser Lys Leu Leu
1 5 10 15
Arg Asp Ser His Val Leu His Ser Arg Leu Ser Gln Cys Pro Glu Val
20 25 30
His Pro Leu Pro Thr Pro Val Leu Leu Pro Ala Val Asp Phe Ser Leu
35 40 45
Gly Glu Trp Lys Thr Gln Met Glu Glu Thr Lys Ala Gln Asp Thr Leu
50 55 60
Gly Ala Val Thr Leu Leu Leu Glu Gly Val Met Ala Ala Arg Gly Gln
65 70 75
Leu Gly Pro Thr Cys Leu Ser Ser Leu Leu Gly Gln Leu Ser Gly Gln
85 90 95
Val Arg Leu Leu Leu Gly Ala Leu Gln Ser Leu Leu Gly Thr Gln Leu
100 105 110
Pro Pro Gln Gly Arg Thr Thr Ala His Lys Asp Pro Asn Ala Ile Phe
115 120 125
Leu Ser Phe Gln His Leu Leu Arg Gly Lys Val Arg Phe Leu Met Leu
130 135 140
Val Gly Gly Ser Thr Leu Cys Val Arg Arg Ala Pro Pro Thr Thr Ala
145 150 155 160
Ala Pro Ser Arg Thr Ser Leu Val Leu Thr Leu Asn Glu Leu
165 170

```

<210> 29
 <211> 174

<212> PRT
<213> Artificial Sequence

<220>
<223> Modified human TPO

```

<400> 29
Ser Pro Ala Pro Pro Ala Cys Asp Leu Arg Val Leu Ser Lys Leu Leu
 1          5          10          15
Arg Asp Ser His Val Leu His Ser Arg Leu Ser Gln Cys Pro Glu Val
 20          25          30
His Pro Leu Pro Thr Pro Val Leu Leu Pro Ala Val Asp Phe Ser Leu
 35          40          45
Gly Glu Trp Lys Thr Gln Met Glu Thr Lys Ala Gln Asp Ala Leu
 50          55          60
Gly Ala Ala Thr Leu Leu Leu Glu Gly Val Met Ala Ala Arg Gly Gln
 65          70          75          80
Leu Gly Pro Thr Cys Leu Ser Ser Leu Leu Gly Gln Leu Ser Gly Gln
 85          90          95
Val Arg Leu Leu Leu Gly Ala Leu Gln Ser Leu Leu Gly Thr Gln Leu
100          105          110
Pro Pro Gln Gly Arg Thr Thr Ala His Lys Asp Pro Asn Ala Ile Phe
115          120          125
Leu Ser Phe Gln His Leu Leu Arg Gly Lys Val Arg Phe Leu Met Leu
130          135          140
Val Gly Gly Ser Thr Leu Cys Val Arg Arg Ala Pro Pro Thr Thr Ala
145          150          155          160
Val Pro Ser Arg Thr Ser Leu Val Leu Thr Leu Asn Glu Leu
165          170

```

<210> 30
<211> 174
<212> PRT
<213> Artificial Sequence

<220>
<223> Modified human TPO

```

<400> 30
Ser Pro Ala Pro Pro Ala Cys Asp Leu Arg Val Leu Ser Lys Leu Leu
 1          5          10          15
Arg Asp Ser His Val Leu His Ser Arg Leu Ser Gln Cys Pro Glu Val
 20          25          30
His Pro Leu Pro Thr Pro Val Leu Leu Pro Ala Val Asp Phe Ser Leu
 35          40          45
Gly Glu Trp Lys Thr Gln Met Glu Thr Lys Ala Gln Asp Ala Leu
 50          55          60
Gly Ala Thr Thr Leu Leu Glu Gly Val Met Ala Ala Arg Gly Gln
 65          70          75          80
Leu Gly Pro Thr Cys Leu Ser Ser Leu Leu Gly Gln Leu Ser Gly Gln
 85          90          95
Val Arg Leu Leu Leu Gly Ala Leu Gln Ser Leu Leu Gly Thr Gln Leu
100          105          110
Pro Pro Gln Gly Arg Thr Thr Ala His Lys Asp Pro Asn Ala Ile Phe
115          120          125
Leu Ser Phe Gln His Leu Leu Arg Gly Lys Val Arg Phe Leu Met Leu
130          135          140

```

Val Gly Gly Ser Thr Leu Cys Val Arg Arg Ala Pro Pro Thr Thr Ala
 145 150 155 160
 Val Pro Ser Arg Thr Ser Leu Val Leu Thr Leu Asn Glu Leu
 165 170

<210> 31
 <211> 174
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Modified human TPO

<400> 31
 Ser Pro Ala Pro Pro Ala Cys Asp Leu Arg Val Leu Ser Lys Leu Leu
 1 5 10 15
 Arg Asp Ser His Val Leu His Ser Arg Leu Ser Gln Cys Pro Glu Val
 20 25 30
 His Pro Leu Pro Thr Pro Val Leu Leu Pro Ala Val Asp Phe Ser Leu
 35 40 45
 Gly Glu Trp Lys Thr Gln Met Glu Glu Thr Lys Ala Gln Asp Thr Leu
 50 55 60
 Gly Ala Ala Thr Leu Leu Leu Glu Gly Val Met Ala Ala Arg Gly Gln
 65 70 75 80
 Leu Gly Pro Thr Cys Leu Ser Ser Leu Leu Gly Gln Leu Ser Gly Gln
 85 90 95
 Val Arg Leu Leu Leu Gly Ala Leu Gln Ser Leu Leu Gly Thr Gln Leu
 100 105 110
 Pro Pro Gln Gly Arg Thr Thr Ala His Lys Asp Pro Asn Ala Ile Phe
 115 120 125
 Leu Ser Phe Gln His Leu Leu Arg Gly Lys Val Arg Phe Leu Met Leu
 130 135 140
 Val Gly Gly Ser Thr Leu Cys Val Arg Arg Ala Pro Thr Thr Ala
 145 150 155 160
 Val Pro Ser Arg Thr Ser Leu Val Leu Thr Leu Asn Glu Leu
 165 170

<210> 32
 <211> 174
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Modified human TPO

<400> 32
 Ser Pro Ala Pro Pro Ala Cys Asp Leu Arg Val Leu Ser Lys Leu Leu
 1 5 10 15
 Arg Asp Ser His Val Leu His Ser Arg Leu Ser Gln Cys Pro Glu Val
 20 25 30
 His Pro Leu Pro Thr Pro Val Leu Leu Pro Ala Val Asp Phe Ser Leu
 35 40 45
 Gly Glu Trp Lys Thr Gln Met Glu Glu Thr Lys Ala Gln Asp Ala Leu
 50 55 60
 Gly Ala Val Thr Leu Leu Leu Glu Gly Val Met Ala Ala Arg Gly Gln
 65 70 75 80

```

Leu Gly Pro Thr Cys Leu Ser Ser Leu Leu Gly Gln Leu Ser Gly Gln
      85                      90          95
Val Arg Leu Leu Leu Gly Ala Leu Gln Ser Leu Leu Gly Thr Gln Leu
      100                    105          110
Pro Pro Gln Gly Arg Thr Thr Ala His Lys Asp Pro Asn Ala Ile Phe
      115                    120          125
Leu Ser Phe Gln His Leu Leu Arg Gly Lys Val Arg Phe Leu Met Leu
      130                    135          140
Val Gly Gly Ser Thr Leu Cys Val Arg Arg Ala Pro Pro Thr Thr Ala
      145                    150          155          160
Ala Pro Ser Arg Thr Ser Leu Val Leu Thr Leu Asn Glu Leu
      165                      170

```

<210> 33
 <211> 174
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Modified human TPO

```

<400> 33
Ser Pro Ala Pro Pro Ala Cys Asp Leu Arg Val Leu Ser Lys Leu Leu
  1          5          10          15
Arg Asp Ser His Val Leu His Ser Arg Leu Ser Gln Cys Pro Glu Val
      20          25          30
His Pro Leu Pro Thr Pro Val Leu Leu Pro Ala Val Asp Phe Ser Leu
      35          40          45
Gly Glu Trp Lys Thr Gln Met Glu Glu Thr Lys Ala Gln Asp Ala Leu
      50          55          60
Gly Ala Val Thr Leu Leu Leu Glu Gly Val Met Ala Ala Arg Gly Gln
      65          70          75          80
Leu Gly Pro Thr Cys Leu Ser Ser Leu Leu Gly Gln Leu Ser Gly Gln
      85          90          95
Val Arg Leu Leu Leu Gly Ala Leu Gln Ser Leu Leu Gly Thr Gln Leu
      100         105         110
Pro Pro Gln Gly Arg Thr Thr Ala His Lys Asp Pro Asn Ala Ile Phe
      115         120         125
Leu Ser Phe Gln His Leu Leu Arg Gly Lys Val Arg Phe Leu Met Leu
      130         135         140
Val Gly Gly Ser Thr Leu Cys Val Arg Arg Ala Pro Pro Thr Thr Ala
      145         150         155          160
Glu Pro Ser Arg Thr Ser Leu Val Leu Thr Leu Asn Glu Leu
      165          170

```

<210> 34
 <211> 174
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Modified human TPO

```

<400> 34
Ser Pro Ala Pro Pro Ala Cys Asp Leu Arg Val Leu Ser Lys Leu Leu
  1          5          10          15

```

```

Arg Asp Ser His Val Leu His Ser Arg Leu Ser Gln Cys Pro Glu Val
      20      25      30
His Pro Leu Pro Thr Pro Val Leu Leu Pro Ala Val Asp Phe Ser Leu
      35      40      45
Gly Glu Trp Lys Thr Gln Met Glu Glu Thr Lys Ala Gln Asp Ala Leu
      50      55      60
Gly Ala Val Thr Leu Leu Leu Glu Gly Val Met Ala Ala Arg Gly Gln
      65      70      80
Leu Gly Pro Thr Cys Leu Ser Ser Leu Leu Gly Gln Leu Ser Gly Gln
      85      90      95
Val Arg Leu Leu Leu Gly Ala Leu Gln Ser Leu Leu Gly Thr Gln Leu
      100      105      110
Pro Pro Gln Gly Arg Thr Thr Ala His Lys Asp Pro Asn Ala Ile Phe
      115      120      125
Leu Ser Phe Gln His Leu Leu Arg Gly Lys Val Arg Phe Leu Met Leu
      130      135      140
Val Gly Gly Ser Thr Leu Cys Val Arg Arg Ala Pro Pro Thr Thr Ala
      145      150      155      160
Arg Pro Ser Arg Thr Ser Leu Val Leu Thr Leu Asn Glu Leu
      165      170

```

```

<210> 35
<211> 174
<212> PRT
<213> Artificial Sequence

```

```

<220>
<223> Modified human TPO

```

```

<400> 35
Ser Pro Ala Pro Pro Ala Cys Asp Leu Arg Val Leu Ser Lys Leu Leu
      1      5      10      15
Arg Asp Ser His Val Leu His Ser Arg Leu Ser Gln Cys Pro Glu Val
      20      25      30
His Pro Leu Pro Thr Pro Val Leu Leu Pro Ala Val Asp Phe Ser Leu
      35      40      45
Gly Glu Trp Lys Thr Gln Met Glu Glu Thr Lys Ala Gln Asp Ala Leu
      50      55      60
Gly Ala Val Thr Leu Leu Leu Glu Gly Val Met Ala Ala Arg Gly Gln
      65      70      75      80
Leu Gly Pro Thr Cys Leu Ser Ser Leu Leu Gly Gln Leu Ser Gly Gln
      85      90      95
Val Arg Leu Leu Leu Gly Ala Leu Gln Ser Leu Leu Gly Thr Gln Leu
      100      105      110
Pro Pro Gln Gly Arg Thr Thr Ala His Lys Asp Pro Asn Ala Ile Phe
      115      120      125
Leu Ser Phe Gln His Leu Leu Arg Gly Lys Val Arg Phe Leu Met Leu
      130      135      140
Val Gly Gly Ser Thr Leu Cys Val Arg Arg Ala Pro Pro Thr Thr Ala
      145      150      155      160
Thr Pro Ser Arg Thr Ser Leu Val Leu Thr Leu Asn Glu Leu
      165      170

```

```

<210> 36
<211> 174
<212> PRT

```

<213> Artificial Sequence

<220>

<223> Modified human TPO

<400> 36

```

Ser Pro Ala Pro Pro Ala Cys Asp Leu Arg Val Leu Ser Lys Leu Leu
 1           5           10           15
Arg Asp Ser His Val Leu His Ser Arg Leu Ser Gln Cys Pro Glu Val
          20           25           30
His Pro Leu Pro Thr Pro Val Leu Leu Pro Ala Val Asp Phe Ser Leu
          35           40           45
Gly Ala Trp Lys Thr Gln Met Glu Glu Thr Lys Ala Gln Asp Ile Leu
          50           55           60
Gly Ala Thr Thr Leu Leu Glu Gly Val Met Ala Ala Arg Gly Gln
65           70           75           80
Leu Gly Pro Thr Cys Leu Ser Ser Leu Leu Gly Gln Leu Ser Gly Gln
          85           90           95
Val Arg Leu Leu Leu Gly Ala Leu Gln Ser Leu Leu Gly Thr Gln Leu
          100          105          110
Pro Pro Gln Gly Arg Thr Thr Ala His Lys Asp Pro Asn Ala Ile Phe
          115          120          125
Leu Ser Phe Gln His Leu Leu Arg Gly Lys Val Arg Phe Leu Met Leu
          130          135          140
Val Gly Gly Ser Thr Leu Cys Val Arg Arg Ala Pro Pro Thr Thr Ala
145          150          155          160
Val Pro Ser Arg Thr Ser Leu Val Leu Thr Leu Asn Glu Leu
          165          170

```

<210> 37

<211> 174

<212> PRT

<213> Artificial Sequence

<220>

<223> Modified human TPO

<400> 37

```

Ser Pro Ala Pro Pro Ala Cys Asp Leu Arg Val Leu Ser Lys Leu Leu
 1           5           10           15
Arg Asp Ser His Val Leu His Ser Arg Leu Ser Gln Cys Pro Glu Val
          20           25           30
His Pro Leu Pro Thr Pro Val Leu Leu Pro Ala Val Asp Phe Ser Leu
          35           40           45
Gly Ala Trp Lys Thr Gln Met Glu Glu Thr Lys Ala Gln Asp Ala Leu
          50           55           60
Gly Ala Val Thr Leu Leu Glu Gly Val Met Ala Ala Arg Gly Gln
65           70           75           80
Leu Gly Pro Thr Cys Leu Ser Ser Leu Leu Gly Gln Leu Ser Gly Gln
          85           90           95
Val Arg Leu Leu Leu Gly Ala Leu Gln Ser Leu Leu Gly Thr Gln Leu
          100          105          110
Pro Pro Gln Gly Arg Thr Thr Ala His Lys Asp Pro Asn Ala Ile Phe
          115          120          125
Leu Ser Phe Gln His Leu Leu Arg Gly Lys Val Arg Phe Leu Met Leu
          130          135          140
Val Gly Gly Ser Thr Leu Cys Val Arg Arg Ala Pro Pro Thr Thr Ala

```

```

145          150          155          160
Val Pro Ser Arg Thr Ser Leu Val Leu Thr Leu Asn Glu Leu
          165          170

```

```
<210> 38
<211> 174
<212> PRT
<213> Artificial Sequence
```

<220>
<223> Modified human TPO

[illegible]

```
<210> 39
<211> 174
<212> PRT
<213> Artificial Sequence
```

<220>
<223> Modified human TPO

4000> 39																
Ser	Pro	Ala	Pro	Pro	Ala	Cys	Asp	Leu	Arg	Val	Leu	Ser	Lys	Leu	Leu	
1				5					10					15		
Arg	Asp	Ser	His	Val	Leu	His	Ser	Arg	Leu	Ser	Gln	Cys	Pro	Glu	Val	
			20					25					30			
His	Pro	Leu	Pro	Thr	Pro	Val	Leu	Leu	Pro	Ala	Val	Asp	Phe	Ser	Leu	
			35				40					45				
Gly	Ala	Trp	Lys	Thr	Gln	Met	Glu	Glu	Thr	Lys	Ala	Gln	Asp	Ile	Leu	
			50			55					60					
Gly	Ala	Val	Thr	Leu	Leu	Leu	Glu	Gly	Val	Met	Ala	Ala	Arg	Gly	Gln	
65					70				75					80		
Leu	Gly	Pro	Thr	Cys	Leu	Ser	Ser	Leu	Leu	Gly	Gln	Leu	Ser	Gly	Gln	

```

      85      90      95
Val Arg Leu Leu Leu Gly Ala Leu Gln Ser Leu Leu Gly Thr Gln Leu
      100      105      110
Pro Pro Gln Gly Arg Thr Thr Ala His Lys Asp Pro Asn Ala Ile Phe
      115      120      125
Leu Ser Phe Gln His Leu Leu Arg Gly Lys Val Arg Phe Leu Met Leu
      130      135      140
Val Gly Gly Ser Thr Leu Cys Val Arg Arg Ala Pro Thr Thr Ala
      145      150      155      160
Glu Pro Ser Arg Thr Ser Leu Val Leu Thr Leu Asn Glu Leu
      165      170

```

<210> 40
 <211> 174
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Modified human TPO

```

<400> 40
Ser Pro Ala Pro Pro Ala Cys Asp Leu Arg Val Leu Ser Lys Leu Leu
  1      5      10      15
Arg Asp Ser His Val Leu His Ser Arg Leu Ser Gln Cys Pro Glu Val
      20      25      30
His Pro Leu Pro Thr Pro Val Leu Leu Pro Ala Val Asp Phe Ser Leu
      35      40      45
Gly Glu Trp Lys Thr Gln Met Glu Glu Thr Lys Ala Gln Asp Ile Leu
      50      55      60
Gly Ala Val Thr Leu Leu Leu Glu Gly Val Met Ala Ala Arg Gly Gln
      65      70      75      80
Leu Gly Pro Thr Cys Leu Ser Ser Leu Leu Gly Gln Leu Ser Gly Gln
      85      90      95
Val Arg Leu Leu Leu Gly Ala Leu Gln Ser Leu Leu Gly Thr Gln Leu
      100      105      110
Pro Pro Gln Gly Arg Thr Thr Ala His Lys Asp Pro Asn Ala Ile Phe
      115      120      125
Leu Ser Phe Gln His Leu Leu Arg Gly Lys Val Arg Phe Leu Met Leu
      130      135      140
Val Gly Gly Ser Thr Leu Cys Val Arg Arg Ala Pro Thr Thr Ala
      145      150      155      160
Ala Pro Ser Arg Thr Ser Leu Val Leu Thr Leu Asn Glu Leu
      165      170

```

<210> 41
 <211> 174
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Modified human TPO

```

<400> 41
Ser Pro Ala Pro Pro Ala Cys Asp Leu Arg Val Leu Ser Lys Leu Leu
  1      5      10      15
Arg Asp Ser His Val Leu His Ser Arg Leu Ser Gln Cys Pro Glu Val

```

```

                20                25                30
His Pro Leu Pro Thr Pro Val Leu Leu Pro Ala Val Asp Phe Ser Leu
      35      40      45
Gly Glu Trp Lys Thr Gln Met Glu Glu Thr Lys Ala Gln Asp Ile Leu
      50      55      60
Gly Ala Val Thr Leu Leu Leu Glu Gly Val Met Ala Ala Arg Gly Gln
      65      70      75
Leu Gly Pro Thr Cys Leu Ser Ser Leu Leu Gly Gln Leu Ser Gly Gln
      85      90      95
Val Arg Leu Leu Leu Gly Ala Leu Gln Ser Leu Leu Gly Thr Gln Leu
      100      105      110
Pro Pro Gln Gly Arg Thr Thr Ala His Lys Asp Pro Asn Ala Ile Phe
      115      120      125
Leu Ser Phe Gln His Leu Leu Arg Gly Lys Val Arg Phe Leu Met Leu
      130      135      140
Val Gly Gly Ser Thr Leu Cys Val Arg Arg Ala Pro Pro Thr Thr Ala
      145      150      155      160
Asp Pro Ser Arg Thr Ser Leu Val Leu Thr Leu Asn Glu Leu
                165                170

```

<210> 42
 <211> 174
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Modified human TPO

```

<400> 42
Ser Pro Ala Pro Pro Ala Cys Asp Leu Arg Val Leu Ser Lys Leu Leu
      1      5      10      15
Arg Asp Ser His Val Leu His Ser Arg Leu Ser Gln Cys Pro Glu Val
      20      25      30
His Pro Leu Pro Thr Pro Val Leu Leu Pro Ala Val Asp Phe Ser Leu
      35      40      45
Gly Glu Trp Lys Thr Gln Met Glu Glu Thr Lys Ala Gln Asp Ile Leu
      50      55      60
Gly Ala Val Thr Leu Leu Leu Glu Gly Val Met Ala Ala Arg Gly Gln
      65      70      75
Leu Gly Pro Thr Cys Leu Ser Ser Leu Leu Gly Gln Leu Ser Gly Gln
      85      90      95
Val Arg Leu Leu Leu Gly Ala Leu Gln Ser Leu Leu Gly Thr Gln Leu
      100      105      110
Pro Pro Gln Gly Arg Thr Thr Ala His Lys Asp Pro Asn Ala Ile Phe
      115      120      125
Leu Ser Phe Gln His Leu Leu Arg Gly Lys Val Arg Phe Leu Met Leu
      130      135      140
Val Gly Gly Ser Thr Leu Cys Val Arg Arg Ala Pro Pro Thr Thr Ala
      145      150      155      160
Glu Pro Ser Arg Thr Ser Leu Val Leu Thr Leu Asn Glu Leu
                165                170

```

<210> 43
 <211> 174
 <212> PRT
 <213> Artificial Sequence

<220>

<223> Modified human TPO

<400> 43

```

Ser Pro Ala Pro Pro Ala Cys Asp Leu Arg Val Leu Ser Lys Leu Leu
1      5      10      15
Arg Asp Ser His Val Leu His Ser Arg Leu Ser Gln Cys Pro Glu Val
20     25     30
His Pro Leu Pro Thr Pro Val Leu Leu Pro Ala Val Asp Phe Ser Leu
35     40     45
Gly Glu Trp Lys Thr Gln Met Glu Glu Thr Lys Ala Gln Asp Ile Leu
50     55     60
Gly Ala Val Thr Leu Leu Leu Glu Gly Val Met Ala Ala Arg Gly Gln
65     70     75
Leu Gly Pro Thr Cys Leu Ser Ser Leu Leu Gly Gln Leu Ser Gly Gln
85     90     95
Val Arg Leu Leu Leu Gly Ala Leu Gln Ser Leu Leu Gly Thr Gln Leu
100    105    110
Pro Pro Gln Gly Arg Thr Thr Ala His Lys Asp Pro Asn Ala Ile Phe
115    120    125
Leu Ser Phe Gln His Leu Leu Arg Gly Lys Val Arg Phe Leu Met Leu
130    135    140
Val Gly Gly Ser Thr Leu Cys Val Arg Arg Ala Pro Pro Thr Thr Ala
145    150    155    160
Gly Pro Ser Arg Thr Ser Leu Val Leu Thr Leu Asn Glu Leu
165    170

```

<210> 44

<211> 174

<212> PRT

<213> Artificial Sequence

<220>

<223> Modified human TPO

<400> 44

```

Ser Pro Ala Pro Pro Ala Cys Asp Leu Arg Val Leu Ser Lys Leu Leu
1      5      10      15
Arg Asp Ser His Val Leu His Ser Arg Leu Ser Gln Cys Pro Glu Val
20     25     30
His Pro Leu Pro Thr Pro Val Leu Leu Pro Ala Val Asp Phe Ser Leu
35     40     45
Gly Glu Trp Lys Thr Gln Met Glu Glu Thr Lys Ala Gln Asp Ile Leu
50     55     60
Gly Ala Val Thr Leu Leu Leu Glu Gly Val Met Ala Ala Arg Gly Gln
65     70     75
Leu Gly Pro Thr Cys Leu Ser Ser Leu Leu Gly Gln Leu Ser Gly Gln
85     90     95
Val Arg Leu Leu Leu Gly Ala Leu Gln Ser Leu Leu Gly Thr Gln Leu
100    105    110
Pro Pro Gln Gly Arg Thr Thr Ala His Lys Asp Pro Asn Ala Ile Phe
115    120    125
Leu Ser Phe Gln His Leu Leu Arg Gly Lys Val Arg Phe Leu Met Leu
130    135    140
Val Gly Gly Ser Thr Leu Cys Val Arg Arg Ala Pro Pro Thr Thr Ala
145    150    155    160
His Pro Ser Arg Thr Ser Leu Val Leu Thr Leu Asn Glu Leu

```

165

170

<210> 45
<211> 174
<212> PRT
<213> Artificial Sequence

<220>
<223> Modified human TPO

<400> 45
Ser Pro Ala Pro Pro Ala Cys Asp Leu Arg Val Leu Ser Lys Leu Leu
1 5 10 15
Arg Asp Ser His Val Leu His Ser Arg Leu Ser Gln Cys Pro Glu Val
20 25 30
His Pro Leu Pro Thr Pro Val Leu Leu Pro Ala Val Asp Phe Ser Leu
35 40 45
Gly Glu Trp Lys Thr Gln Met Glu Glu Thr Lys Ala Gln Asp Ile Leu
50 55 60
Gly Ala Val Thr Leu Leu Leu Glu Gly Val Met Ala Ala Arg Gly Gln
65 70 75 80
Leu Gly Pro Thr Cys Leu Ser Ser Leu Leu Gly Gln Leu Ser Gly Gln
85 90 95
Val Arg Leu Leu Leu Gly Ala Leu Gln Ser Leu Leu Gly Thr Gln Leu
100 105 110
Pro Pro Gln Gly Arg Thr Thr Ala His Lys Asp Pro Asn Ala Ile Phe
115 120 125
Leu Ser Phe Gln His Leu Leu Arg Gly Lys Val Arg Phe Leu Met Leu
130 135 140
Val Gly Gly Ser Thr Leu Cys Val Arg Arg Ala Pro Thr Thr Ala
145 150 155 160
Asn Pro Ser Arg Thr Ser Leu Val Leu Thr Leu Asn Glu Leu
165 170

<210> 46
<211> 174
<212> PRT
<213> Artificial Sequence

<220>
<223> Modified human TPO

<400> 46
Ser Pro Ala Pro Pro Ala Cys Asp Leu Arg Val Leu Ser Lys Leu Leu
1 5 10 15
Arg Asp Ser His Val Leu His Ser Arg Leu Ser Gln Cys Pro Glu Val
20 25 30
His Pro Leu Pro Thr Pro Val Leu Leu Pro Ala Val Asp Phe Ser Leu
35 40 45
Gly Glu Trp Lys Thr Gln Met Glu Glu Thr Lys Ala Gln Asp Ile Leu
50 55 60
Gly Ala Val Thr Leu Leu Leu Glu Gly Val Met Ala Ala Arg Gly Gln
65 70 75 80
Leu Gly Pro Thr Cys Leu Ser Ser Leu Leu Gly Gln Leu Ser Gly Gln
85 90 95
Val Arg Leu Leu Leu Gly Ala Leu Gln Ser Leu Leu Gly Thr Gln Leu

```

      100      105      110
Pro Pro Gln Gly Arg Thr Thr Ala His Lys Asp Pro Asn Ala Ile Phe
      115      120      125
Leu Ser Phe Gln His Leu Leu Arg Gly Lys Val Arg Phe Leu Met Leu
      130      135      140
Val Gly Gly Ser Thr Leu Cys Val Arg Arg Ala Pro Thr Thr Ala
      145      150      155      160
Pro Pro Ser Arg Thr Ser Leu Val Leu Thr Leu Asn Glu Leu
      165      170

```

<210> 47
 <211> 174
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Modified human TPO

```

<400> 47
Ser Pro Ala Pro Pro Ala Cys Asp Leu Arg Val Leu Ser Lys Leu Leu
  1      5      10      15
Arg Asp Ser His Val Leu His Ser Arg Leu Ser Gln Cys Pro Glu Val
      20      25      30
His Pro Leu Pro Thr Pro Val Leu Leu Pro Ala Val Asp Phe Ser Leu
      35      40      45
Gly Glu Trp Lys Thr Gln Met Glu Glu Thr Lys Ala Gln Asp Ile Leu
      50      55      60
Gly Ala Val Thr Leu Leu Leu Glu Gly Val Met Ala Ala Arg Gly Gln
      65      70      75      80
Leu Gly Pro Thr Cys Leu Ser Ser Leu Leu Gly Gln Leu Ser Gly Gln
      85      90      95
Val Arg Leu Leu Leu Gly Ala Leu Gln Ser Leu Leu Gly Thr Gln Leu
      100      105      110
Pro Pro Gln Gly Arg Thr Thr Ala His Lys Asp Pro Asn Ala Ile Phe
      115      120      125
Leu Ser Phe Gln His Leu Leu Arg Gly Lys Val Arg Phe Leu Met Leu
      130      135      140
Val Gly Gly Ser Thr Leu Cys Val Arg Arg Ala Pro Pro Thr Thr Ala
      145      150      155      160
Lys Pro Ser Arg Thr Ser Leu Val Leu Thr Leu Asn Glu Leu
      165      170

```

<210> 48
 <211> 174
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Modified human TPO

```

<400> 48
Ser Pro Ala Pro Pro Ala Cys Asp Leu Arg Val Leu Ser Lys Leu Leu
  1      5      10      15
Arg Asp Ser His Val Leu His Ser Arg Leu Ser Gln Cys Pro Glu Val
      20      25      30
His Pro Leu Pro Thr Pro Val Leu Leu Pro Ala Val Asp Phe Ser Leu

```

```

      35              40              45
Gly Glu Trp Lys Thr Gln Met Glu Glu Thr Lys Ala Gln Asp Ile Leu
  50              55              60
Gly Ala Val Thr Leu Leu Leu Glu Gly Val Met Ala Ala Arg Gly Gln
  65              70              75
Leu Gly Pro Thr Cys Leu Ser Ser Leu Leu Gly Gln Leu Ser Gly Gln
      85              90              95
Val Arg Leu Leu Leu Gly Ala Leu Gln Ser Leu Leu Gly Thr Gln Leu
      100             105             110
Pro Pro Gln Gly Arg Thr Thr Ala His Lys Asp Pro Asn Ala Ile Phe
      115             120             125
Leu Ser Phe Gln His Leu Leu Arg Gly Lys Val Arg Phe Leu Met Leu
      130             135             140
Val Gly Gly Ser Thr Leu Cys Val Arg Arg Ala Pro Pro Thr Thr Ala
      145             150             155
Gln Pro Ser Arg Thr Ser Leu Val Leu Thr Leu Asn Glu Leu
      165             170

```

<210> 49
 <211> 174
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Modified human TPO

```

<400> 49
Ser Pro Ala Pro Pro Ala Cys Asp Leu Arg Val Leu Ser Lys Leu Leu
  1              5              10
Arg Asp Ser His Val Leu His Ser Arg Leu Ser Gln Cys Pro Glu Val
      20              25              30
His Pro Leu Pro Thr Pro Val Leu Leu Pro Ala Val Asp Phe Ser Leu
      35              40              45
Gly Glu Trp Lys Thr Gln Met Glu Glu Thr Lys Ala Gln Asp Ile Leu
      50              55              60
Gly Ala Val Thr Leu Leu Leu Glu Gly Val Met Ala Ala Arg Gly Gln
      65              70              75
Leu Gly Pro Thr Cys Leu Ser Ser Leu Leu Gly Gln Leu Ser Gly Gln
      85              90              95
Val Arg Leu Leu Leu Gly Ala Leu Gln Ser Leu Leu Gly Thr Gln Leu
      100             105             110
Pro Pro Gln Gly Arg Thr Thr Ala His Lys Asp Pro Asn Ala Ile Phe
      115             120             125
Leu Ser Phe Gln His Leu Leu Arg Gly Lys Val Arg Phe Leu Met Leu
      130             135             140
Val Gly Gly Ser Thr Leu Cys Val Arg Arg Ala Pro Pro Thr Thr Ala
      145             150             155
Arg Pro Ser Arg Thr Ser Leu Val Leu Thr Leu Asn Glu Leu
      165             170

```

<210> 50
 <211> 174
 <212> PRT
 <213> Artificial Sequence

<220>

<223> Modified human TPO

<400> 50

```

Ser Pro Ala Pro Pro Ala Cys Asp Leu Arg Val Leu Ser Lys Leu Leu
 1      5      10      15
Arg Asp Ser His Val Leu His Ser Arg Leu Ser Gln Cys Pro Glu Val
 20      25      30
His Pro Leu Pro Thr Pro Val Leu Leu Pro Ala Val Asp Phe Ser Leu
 35      40      45
Gly Glu Trp Lys Thr Gln Met Glu Glu Thr Lys Ala Gln Asp Ile Leu
 50      55      60
Gly Ala Val Thr Leu Leu Leu Glu Gly Val Met Ala Ala Arg Gly Gln
 65      70      75
Leu Gly Pro Thr Cys Leu Ser Ser Leu Leu Gly Gln Leu Ser Gly Gln
 85      90      95
Val Arg Leu Leu Leu Gly Ala Leu Gln Ser Leu Leu Gly Thr Gln Leu
100      105      110
Pro Pro Gln Gly Arg Thr Thr Ala His Lys Asp Pro Asn Ala Ile Phe
115      120      125
Leu Ser Phe Gln His Leu Leu Arg Gly Lys Val Arg Phe Leu Met Leu
130      135      140
Val Gly Gly Ser Thr Leu Cys Val Arg Arg Ala Pro Pro Thr Thr Ala
145      150      155
Thr Pro Ser Arg Thr Ser Leu Val Leu Thr Leu Asn Glu Leu
165      170

```

<210> 51

<211> 174

<212> PRT

<213> Artificial Sequence

<220>

<223> Modified human TPO

<400> 51

```

Ser Pro Ala Pro Pro Ala Cys Asp Leu Arg Val Leu Ser Lys Leu Leu
 1      5      10      15
Arg Asp Ser His Val Leu His Ser Arg Leu Ser Gln Cys Pro Glu Val
 20      25      30
His Pro Leu Pro Thr Pro Val Leu Leu Pro Ala Val Asp Phe Ser Leu
 35      40      45
Gly Glu Trp Lys Thr Gln Met Glu Glu Thr Lys Ala Gln Asp Ile Leu
 50      55      60
Gly Ala Ala Thr Leu Leu Leu Glu Gly Val Met Ala Ala Arg Gly Gln
 65      70      75
Leu Gly Pro Thr Cys Leu Ser Ser Leu Leu Gly Gln Leu Ser Gly Gln
 85      90      95
Val Arg Leu Leu Leu Gly Ala Leu Gln Ser Leu Leu Gly Thr Gln Leu
100      105      110
Pro Pro Gln Gly Arg Thr Thr Ala His Lys Asp Pro Asn Ala Ile Phe
115      120      125
Leu Ser Phe Gln His Leu Leu Arg Gly Lys Val Arg Phe Leu Met Leu
130      135      140
Val Gly Gly Ser Thr Leu Cys Val Arg Arg Ala Pro Pro Thr Thr Ala
145      150      155
Val Pro Ser Arg Thr Ser Leu Val Leu Thr Leu Asn Glu Leu
165      170

```

<210> 52
 <211> 174
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Modified human TPO

<400> 52
 Ser Pro Ala Pro Pro Ala Cys Asp Leu Arg Val Leu Ser Lys Leu Leu
 1 5 10 15
 Arg Asp Ser His Val Leu His Ser Arg Leu Ser Gln Cys Pro Glu Val
 20 25 30
 His Pro Leu Pro Thr Pro Val Leu Leu Pro Ala Val Asp Phe Ser Leu
 35 40 45
 Gly Glu Trp Lys Thr Gln Met Glu Glu Thr Lys Ala Gln Asp Ile Leu
 50 55 60
 Gly Ala Thr Thr Leu Leu Leu Glu Gly Val Met Ala Ala Arg Gly Gln
 65 70 80
 Leu Gly Pro Thr Cys Leu Ser Ser Leu Leu Gly Gln Leu Ser Gly Gln
 85 90 95
 Val Arg Leu Leu Leu Gly Ala Leu Gln Ser Leu Leu Gly Thr Gln Leu
 100 105 110
 Pro Pro Gln Gly Arg Thr Thr Ala His Lys Asp Pro Asn Ala Ile Phe
 115 120 125
 Leu Ser Phe Gln His Leu Leu Arg Gly Lys Val Arg Phe Leu Met Leu
 130 135 140
 Val Gly Gly Ser Thr Leu Cys Val Arg Arg Ala Pro Pro Thr Thr Ala
 145 150 155 160
 Val Pro Ser Arg Thr Ser Leu Val Leu Thr Leu Asn Glu Leu
 165 170

<210> 53
 <211> 174
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Modified human TPO

<400> 53
 Ser Pro Ala Pro Pro Ala Cys Asp Leu Arg Val Leu Ser Lys Leu Leu
 1 5 10 15
 Arg Asp Ser His Val Leu His Ser Arg Leu Ser Gln Cys Pro Glu Val
 20 25 30
 His Pro Leu Pro Thr Pro Val Leu Leu Pro Ala Val Asp Phe Ser Leu
 35 40 45
 Gly Glu Trp Lys Thr Gln Met Glu Glu Thr Lys Ala Gln Asp Ala Leu
 50 55 60
 Gly Ala Val Thr Leu Leu Leu Glu Gly Val Met Ala Ala Arg Gly Gln
 65 70 80
 Leu Gly Pro Thr Cys Leu Ser Ser Leu Leu Gly Gln Leu Ser Gly Gln
 85 90 95
 Val Arg Leu Leu Leu Gly Ala Leu Gln Ser Leu Leu Gly Thr Gln Leu
 100 105 110
 Pro Pro Gln Gly Arg Thr Thr Ala His Lys Asp Pro Asn Ala Ile Phe

```

      115      120      125
Leu Ser Phe Gln His Leu Leu Arg Gly Lys Val Arg Phe Leu Met Leu
      130      135      140
Val Gly Gly Ser Thr Leu Cys Val Arg Arg Ala Pro Thr Thr Ala
      145      150      155      160
Val Pro Ser Arg Thr Ser Leu Val Leu Thr Leu Asn Glu Leu
      165      170

```

<210> 54
 <211> 174
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Modified human TPO

```

<400> 54
Ser Pro Ala Pro Pro Ala Cys Asp Leu Arg Val Leu Ser Lys Leu Leu
  1          5          10          15
Arg Asp Ser His Val Leu His Ser Arg Leu Ser Gln Cys Pro Glu Val
      20          25          30
His Pro Leu Pro Thr Pro Val Leu Leu Pro Ala Val Asp Phe Ser Leu
      35          40          45
Gly Glu Trp Lys Thr Gln Met Glu Glu Thr Lys Ala Gln Asp Thr Leu
      50          55          60
Gly Ala Val Thr Leu Leu Leu Glu Gly Val Met Ala Ala Arg Gly Gln
      65          70          75          80
Leu Gly Pro Thr Cys Leu Ser Ser Leu Leu Gly Gln Leu Ser Gly Gln
      85          90          95
Val Arg Leu Leu Leu Gly Ala Leu Gln Ser Leu Leu Gly Thr Gln Leu
      100         105         110
Pro Pro Gln Gly Arg Thr Thr Ala His Lys Asp Pro Asn Ala Ile Phe
      115         120         125
Leu Ser Phe Gln His Leu Leu Arg Gly Lys Val Arg Phe Leu Met Leu
      130         135         140
Val Gly Gly Ser Thr Leu Cys Val Arg Arg Ala Pro Pro Thr Thr Ala
      145         150         155         160
Val Pro Ser Arg Thr Ser Leu Val Leu Thr Leu Asn Glu Leu
      165         170

```

<210> 55
 <211> 174
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Modified human TPO

```

<400> 55
Ser Pro Ala Pro Pro Ala Cys Asp Leu Arg Val Leu Ser Lys Leu Leu
  1          5          10          15
Arg Asp Ser His Val Leu His Ser Arg Leu Ser Gln Cys Pro Glu Val
      20          25          30
His Pro Leu Pro Thr Pro Val Leu Leu Pro Ala Val Asp Phe Ser Leu
      35          40          45
Gly Glu Trp Lys Thr Gln Met Glu Glu Thr Lys Ala Ala Asp Ile Leu

```

```

      50              55              60
Gly Ala Val Thr Leu Leu Glu Gly Val Met Ala Ala Arg Gly Gln
65      70      75      80
Leu Gly Pro Thr Cys Leu Ser Ser Leu Leu Gly Gln Leu Ser Gly Gln
      85      90      95
Val Arg Leu Leu Gly Ala Leu Gln Ser Leu Leu Gly Thr Gln Leu
      100      105      110
Pro Pro Gln Gly Arg Thr Thr Ala His Lys Asp Pro Asn Ala Ile Phe
      115      120      125
Leu Ser Phe Gln His Leu Leu Arg Gly Lys Val Arg Phe Leu Met Leu
      130      135      140
Val Gly Gly Ser Thr Leu Cys Val Arg Arg Ala Pro Pro Thr Thr Ala
145      150      155      160
Val Pro Ser Arg Thr Ser Leu Val Leu Thr Leu Asn Glu Leu
      165      170

```

<210> 56
 <211> 174
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Modified human TPO

```

<400> 56
Ser Pro Ala Pro Pro Ala Cys Asp Leu Arg Val Leu Ser Lys Leu Leu
1      5      10      15
Arg Asp Ser His Val Leu His Ser Arg Leu Ser Gln Cys Pro Glu Val
      20      25      30
His Pro Leu Pro Thr Pro Val Leu Leu Pro Ala Val Asp Phe Ser Leu
      35      40      45
Gly Glu Trp Lys Thr Gln Met Glu Glu Thr Lys Ala Thr Asp Ile Leu
      50      55      60
Gly Ala Val Thr Leu Leu Leu Glu Gly Val Met Ala Ala Arg Gly Gln
65      70      75      80
Leu Gly Pro Thr Cys Leu Ser Ser Leu Leu Gly Gln Leu Ser Gly Gln
      85      90      95
Val Arg Leu Leu Leu Gly Ala Leu Gln Ser Leu Leu Gly Thr Gln Leu
      100      105      110
Pro Pro Gln Gly Arg Thr Thr Ala His Lys Asp Pro Asn Ala Ile Phe
      115      120      125
Leu Ser Phe Gln His Leu Leu Arg Gly Lys Val Arg Phe Leu Met Leu
      130      135      140
Val Gly Gly Ser Thr Leu Cys Val Arg Arg Ala Pro Pro Thr Thr Ala
145      150      155      160
Val Pro Ser Arg Thr Ser Leu Val Leu Thr Leu Asn Glu Leu
      165      170

```

<210> 57
 <211> 174
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Modified human TPO

```

<400> 57
Ser Pro Ala Pro Pro Ala Cys Asp Leu Arg Val Leu Ser Lys Leu Leu
1      5      10      15
Arg Asp Ser His Val Leu His Ser Arg Leu Ser Gln Cys Pro Glu Val
20     25     30
His Pro Leu Pro Thr Pro Val Leu Leu Pro Ala Val Asp Phe Ser Leu
35     40     45
Gly Glu Trp Lys Thr Gln Ala Glu Glu Thr Lys Ala Gln Asp Ile Leu
50     55     60
Gly Ala Val Thr Leu Leu Leu Glu Gly Val Met Ala Ala Arg Gly Gln
65     70     75
Leu Gly Pro Thr Cys Leu Ser Ser Leu Leu Gly Gln Leu Ser Gly Gln
85     90     95
Val Arg Leu Leu Leu Gly Ala Leu Gln Ser Leu Leu Gly Thr Gln Leu
100    105    110
Pro Pro Gln Gly Arg Thr Thr Ala His Lys Asp Pro Asn Ala Ile Phe
115    120    125
Leu Ser Phe Gln His Leu Leu Arg Gly Lys Val Arg Phe Leu Met Leu
130    135    140
Val Gly Gly Ser Thr Leu Cys Val Arg Arg Ala Pro Pro Thr Thr Ala
145    150    155    160
Val Pro Ser Arg Thr Ser Leu Val Leu Thr Leu Asn Glu Leu
165    170

```

```

<210> 58
<211> 174
<212> PRT
<213> Artificial Sequence

```

```

<220>
<223> Modified human TPO

```

```

<400> 58
Ser Pro Ala Pro Pro Ala Cys Asp Leu Arg Val Leu Ser Lys Leu Leu
1      5      10      15
Arg Asp Ser His Val Leu His Ser Arg Leu Ser Gln Cys Pro Glu Val
20     25     30
His Pro Leu Pro Thr Pro Val Leu Leu Pro Ala Val Asp Phe Ser Leu
35     40     45
Gly Glu Trp Lys Thr Gln Lys Glu Glu Thr Lys Ala Gln Asp Ile Leu
50     55     60
Gly Ala Val Thr Leu Leu Leu Glu Gly Val Met Ala Ala Arg Gly Gln
65     70     75
Leu Gly Pro Thr Cys Leu Ser Ser Leu Leu Gly Gln Leu Ser Gly Gln
85     90     95
Val Arg Leu Leu Leu Gly Ala Leu Gln Ser Leu Leu Gly Thr Gln Leu
100    105    110
Pro Pro Gln Gly Arg Thr Thr Ala His Lys Asp Pro Asn Ala Ile Phe
115    120    125
Leu Ser Phe Gln His Leu Leu Arg Gly Lys Val Arg Phe Leu Met Leu
130    135    140
Val Gly Gly Ser Thr Leu Cys Val Arg Arg Ala Pro Pro Thr Thr Ala
145    150    155    160
Val Pro Ser Arg Thr Ser Leu Val Leu Thr Leu Asn Glu Leu
165    170

```

<210> 59
 <211> 174
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Modified human TPO

<400> 59
 Ser Pro Ala Pro Pro Ala Cys Asp Leu Arg Val Leu Ser Lys Leu Leu
 1 5 10 15
 Arg Asp Ser His Val Leu His Ser Arg Leu Ser Gln Cys Pro Glu Val
 20 25 30
 His Pro Leu Pro Thr Pro Val Leu Leu Pro Ala Val Asp Phe Ser Leu
 35 40 45
 Gly Glu Trp Lys Thr Gln Ser Glu Glu Thr Lys Ala Gln Asp Ile Leu
 50 55 60
 Gly Ala Val Thr Leu Leu Leu Glu Gly Val Met Ala Ala Arg Gly Gln
 65 70 75 80
 Leu Gly Pro Thr Cys Leu Ser Ser Leu Leu Gly Gln Leu Ser Gly Gln
 85 90 95
 Val Arg Leu Leu Leu Gly Ala Leu Gln Ser Leu Leu Gly Thr Gln Leu
 100 105 110
 Pro Pro Gln Gly Arg Thr Thr Ala His Lys Asp Pro Asn Ala Ile Phe
 115 120 125
 Leu Ser Phe Gln His Leu Leu Arg Gly Lys Val Arg Phe Leu Met Leu
 130 135 140
 Val Gly Gly Ser Thr Leu Cys Val Arg Arg Ala Pro Pro Thr Thr Ala
 145 150 155 160
 Val Pro Ser Arg Thr Ser Leu Val Leu Thr Leu Asn Glu Leu
 165 170

<210> 60
 <211> 174
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Modified human TPO

<400> 60
 Ser Pro Ala Pro Pro Ala Cys Asp Leu Arg Val Leu Ser Lys Leu Leu
 1 5 10 15
 Arg Asp Ser His Val Leu His Ser Arg Leu Ser Gln Cys Pro Glu Val
 20 25 30
 His Pro Leu Pro Thr Pro Val Leu Leu Pro Ala Val Asp Phe Ser Leu
 35 40 45
 Gly Glu Trp Lys Thr Gln Thr Glu Glu Thr Lys Ala Gln Asp Ile Leu
 50 55 60
 Gly Ala Val Thr Leu Leu Leu Glu Gly Val Met Ala Ala Arg Gly Gln
 65 70 75 80
 Leu Gly Pro Thr Cys Leu Ser Ser Leu Leu Gly Gln Leu Ser Gly Gln
 85 90 95
 Val Arg Leu Leu Leu Gly Ala Leu Gln Ser Leu Leu Gly Thr Gln Leu
 100 105 110
 Pro Pro Gln Gly Arg Thr Thr Ala His Lys Asp Pro Asn Ala Ile Phe
 115 120 125

```

Leu Ser Phe Gln His Leu Leu Arg Gly Lys Val Arg Phe Leu Met Leu
130 135 140
Val Gly Gly Ser Thr Leu Cys Val Arg Arg Ala Pro Pro Thr Thr Ala
145 150 155 160
Val Pro Ser Arg Thr Ser Leu Val Leu Thr Leu Asn Glu Leu
165 170

```

```

<210> 61
<211> 174
<212> PRT
<213> Artificial Sequence

```

```

<220>
<223> Modified human TPO

```

```

<400> 61
Ser Pro Ala Pro Pro Ala Cys Asp Leu Arg Val Leu Ser Lys Leu Leu
1 5 10 15
Arg Asp Ser His Val Leu His Ser Arg Leu Ser Gln Cys Pro Glu Val
20 25 30
His Pro Leu Pro Thr Pro Val Leu Leu Pro Ala Val Asp Phe Ser Leu
35 40 45
Gly Glu Trp Lys Thr Gln Met Glu Glu Ala Lys Ala Gln Asp Ile Leu
50 55 60
Gly Ala Val Thr Leu Leu Leu Glu Gly Val Met Ala Ala Arg Gly Gln
65 70 75 80
Leu Gly Pro Thr Cys Leu Ser Ser Leu Leu Gly Gln Leu Ser Gly Gln
85 90 95
Val Arg Leu Leu Leu Gly Ala Leu Gln Ser Leu Leu Gly Thr Gln Leu
100 105 110
Pro Pro Gln Gly Arg Thr Thr Ala His Lys Asp Pro Asn Ala Ile Phe
115 120 125
Leu Ser Phe Gln His Leu Leu Arg Gly Lys Val Arg Phe Leu Met Leu
130 135 140
Val Gly Gly Ser Thr Leu Cys Val Arg Arg Ala Pro Pro Thr Thr Ala
145 150 155 160
Val Pro Ser Arg Thr Ser Leu Val Leu Thr Leu Asn Glu Leu
165 170

```

```

<210> 62
<211> 174
<212> PRT
<213> Artificial Sequence

```

```

<220>
<223> Modified human TPO

```

```

<400> 62
Ser Pro Ala Pro Pro Ala Cys Asp Leu Arg Val Leu Ser Lys Leu Leu
1 5 10 15
Arg Asp Ser His Val Leu His Ser Arg Leu Ser Gln Cys Pro Glu Val
20 25 30
His Pro Leu Pro Thr Pro Val Leu Leu Pro Ala Val Asp Phe Ser Leu
35 40 45
Gly Glu Ser Lys Thr Gln Met Glu Glu Thr Lys Ala Gln Asp Ile Leu
50 55 60

```

```

Gly Ala Val Thr Leu Leu Leu Glu Gly Val Met Ala Ala Arg Gly Gln
65      70      75      80
Leu Gly Pro Thr Cys Leu Ser Ser Leu Leu Gly Gln Leu Ser Gly Gln
      85      90      95
Val Arg Leu Leu Leu Gly Ala Leu Gln Ser Leu Leu Gly Thr Gln Leu
      100      105      110
Pro Pro Gln Gly Arg Thr Thr Ala His Lys Asp Pro Asn Ala Ile Phe
      115      120      125
Leu Ser Phe Gln His Leu Leu Arg Gly Lys Val Arg Phe Leu Met Leu
      130      135      140
Val Gly Gly Ser Thr Leu Cys Val Arg Arg Ala Pro Pro Thr Thr Ala
145      150      155      160
Val Pro Ser Arg Thr Ser Leu Val Leu Thr Leu Asn Glu Leu
      165      170

```

<210> 63
 <211> 174
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Modified human TPO

```

<400> 63
Ser Pro Ala Pro Pro Ala Cys Asp Leu Arg Val Leu Ser Lys Leu Leu
1      5      10      15
Arg Asp Ser His Val Leu His Ser Arg Leu Ser Gln Cys Pro Glu Val
      20      25      30
His Pro Leu Pro Thr Pro Val Leu Leu Pro Ala Val Asp Phe Ser Leu
      35      40      45
Gly Ala Trp Lys Thr Gln Met Glu Glu Thr Lys Ala Gln Asp Ile Leu
      50      55      60
Gly Ala Val Thr Leu Leu Leu Glu Gly Val Met Ala Ala Arg Gly Gln
65      70      75      80
Leu Gly Pro Thr Cys Leu Ser Ser Leu Leu Gly Gln Leu Ser Gly Gln
      85      90      95
Val Arg Leu Leu Leu Gly Ala Leu Gln Ser Leu Leu Gly Thr Gln Leu
      100      105      110
Pro Pro Gln Gly Arg Thr Thr Ala His Lys Asp Pro Asn Ala Ile Phe
      115      120      125
Leu Ser Phe Gln His Leu Leu Arg Gly Lys Val Arg Phe Leu Met Leu
      130      135      140
Val Gly Gly Ser Thr Leu Cys Val Arg Arg Ala Pro Pro Thr Thr Ala
145      150      155      160
Val Pro Ser Arg Thr Ser Leu Val Leu Thr Leu Asn Glu Leu
      165      170

```

<210> 64
 <211> 174
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Modified human TPO

<400> 64

```

Ser Pro Ala Pro Pro Ala Cys Asp Leu Arg Val Leu Ser Lys Leu Leu
1      5      10      15
Arg Asp Ser His Val Leu His Ser Arg Leu Ser Gln Cys Pro Glu Val
20     25     30
His Pro Leu Pro Thr Pro Val Leu Leu Pro Ala Val Asp Phe Ser Leu
35     40     45
Gly Glu Trp Lys Thr Gln Met Glu Glu Thr Lys Ala Gln Asp Ile Leu
50     55     60
Gly Ala Val Thr Ala Leu Leu Glu Gly Val Met Ala Ala Arg Gly Gln
65     70     75     80
Leu Gly Pro Thr Cys Leu Ser Ser Leu Leu Gly Gln Leu Ser Gly Gln
85     90     95
Val Arg Leu Leu Leu Gly Ala Leu Gln Ser Leu Leu Gly Thr Gln Leu
100    105    110
Pro Pro Gln Gly Arg Thr Thr Ala His Lys Asp Pro Asn Ala Ile Phe
115    120    125
Leu Ser Phe Gln His Leu Leu Arg Gly Lys Val Arg Phe Leu Met Leu
130    135    140
Val Gly Gly Ser Thr Cys Val Arg Arg Ala Pro Pro Thr Thr Ala
145    150    155    160
Val Pro Ser Arg Thr Ser Leu Val Leu Thr Leu Asn Glu Leu
165    170

```

<210> 65

<211> 174

<212> PRT

<213> Artificial Sequence

<220>

<223> Modified human TPO

<400> 65

```

Ser Pro Ala Pro Pro Ala Cys Asp Leu Arg Val Leu Ser Lys Leu Leu
1      5      10      15
Arg Asp Ser His Val Leu His Ser Arg Leu Ser Gln Cys Pro Glu Val
20     25     30
His Pro Leu Pro Thr Pro Val Leu Leu Pro Ala Val Asp Phe Ser Leu
35     40     45
Gly Glu Trp Lys Thr Gln Met Glu Glu Thr Lys Ala Gln Asp Ile Leu
50     55     60
Gly Ala Val Thr Ser Leu Leu Glu Gly Val Met Ala Ala Arg Gly Gln
65     70     75     80
Leu Gly Pro Thr Cys Leu Ser Ser Leu Leu Gly Gln Leu Ser Gly Gln
85     90     95
Val Arg Leu Leu Leu Gly Ala Leu Gln Ser Leu Leu Gly Thr Gln Leu
100    105    110
Pro Pro Gln Gly Arg Thr Thr Ala His Lys Asp Pro Asn Ala Ile Phe
115    120    125
Leu Ser Phe Gln His Leu Leu Arg Gly Lys Val Arg Phe Leu Met Leu
130    135    140
Val Gly Gly Ser Thr Leu Cys Val Arg Arg Ala Pro Pro Thr Thr Ala
145    150    155    160
Val Pro Ser Arg Thr Ser Leu Val Leu Thr Leu Asn Glu Leu
165    170

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<210> 66

<211> 174
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Modified human TPO

<400> 66
 Ser Pro Ala Pro Pro Ala Cys Asp Leu Arg Val Leu Ser Lys Leu Leu
 1 5 10 15
 Arg Asp Ser His Val Leu His Ser Arg Leu Ser Gln Cys Pro Glu Val
 20 25 30
 His Pro Leu Pro Thr Pro Val Leu Leu Pro Ala Val Asp Phe Ser Leu
 35 40 45
 Gly Glu Trp Lys Thr Gln Met Glu Glu Thr Lys Ala Gln Asp Ile Leu
 50 55 60
 Gly Ala Val Thr Thr Leu Leu Glu Gly Val Met Ala Ala Arg Gly Gln
 65 70 80
 Leu Gly Pro Thr Cys Leu Ser Ser Leu Leu Gly Gln Leu Ser Gly Gln
 85 90 95
 Val Arg Leu Leu Leu Gly Ala Leu Gln Ser Leu Leu Gly Thr Gln Leu
 100 105 110
 Pro Pro Gln Gly Arg Thr Thr Ala His Lys Asp Pro Asn Ala Ile Phe
 115 120 125
 Leu Ser Phe Gln His Leu Leu Arg Gly Lys Val Arg Phe Leu Met Leu
 130 135 140
 Val Gly Gly Ser Thr Leu Cys Val Arg Arg Ala Pro Pro Thr Thr Ala
 145 150 155 160
 Val Pro Ser Arg Thr Ser Leu Val Leu Thr Leu Asn Glu Leu
 165 170

<210> 67
 <211> 174
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Modified human TPO

<400> 67
 Ser Pro Ala Pro Pro Ala Cys Asp Leu Arg Val Leu Ser Lys Leu Leu
 1 5 10 15
 Arg Asp Ser His Val Leu His Ser Arg Leu Ser Gln Cys Pro Glu Val
 20 25 30
 His Pro Leu Pro Thr Pro Val Leu Leu Pro Ala Val Asp Phe Ser Leu
 35 40 45
 Gly Glu Trp Lys Thr Gln Met Glu Glu Thr Lys Ala Gln Asp Ile Leu
 50 55 60
 Gly Ala Val Thr Leu Leu Ala Glu Gly Val Met Ala Ala Arg Gly Gln
 65 70 80
 Leu Gly Pro Thr Cys Leu Ser Ser Leu Leu Gly Gln Leu Ser Gly Gln
 85 90 95
 Val Arg Leu Leu Leu Gly Ala Leu Gln Ser Leu Leu Gly Thr Gln Leu
 100 105 110
 Pro Pro Gln Gly Arg Thr Thr Ala His Lys Asp Pro Asn Ala Ile Phe
 115 120 125
 Leu Ser Phe Gln His Leu Leu Arg Gly Lys Val Arg Phe Leu Met Leu

```

      130              135              140
Val Gly Gly Ser Thr Leu Cys Val Arg Arg Ala Pro Pro Thr Thr Ala
145              150              155              160
Val Pro Ser Arg Thr Ser Leu Val Leu Thr Leu Asn Glu Leu
              165              170

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<210> 68
 <211> 174
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Modified human TPO

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<400> 68
Ser Pro Ala Pro Pro Ala Cys Asp Leu Arg Val Leu Ser Lys Leu Leu
1      5      10      15
Arg Asp Ser His Val Leu His Ser Arg Leu Ser Gln Cys Pro Glu Val
      20      25      30
His Pro Leu Pro Thr Pro Val Leu Leu Pro Ala Val Asp Phe Ser Leu
      35      40      45
Gly Glu Trp Lys Thr Gln Met Glu Glu Thr Lys Ala Gln Asp Ile Leu
      50      55      60
Gly Ala Val Thr Leu Leu Leu Ala Gly Val Met Ala Ala Arg Gly Gln
65      70      75      80
Leu Gly Pro Thr Cys Leu Ser Ser Leu Leu Gly Gln Leu Ser Gly Gln
      85      90      95
Val Arg Leu Leu Leu Gly Ala Leu Gln Ser Leu Leu Gly Thr Gln Leu
      100      105      110
Pro Pro Gln Gly Arg Thr Thr Ala His Lys Asp Pro Asn Ala Ile Phe
      115      120      125
Leu Ser Phe Gln His Leu Leu Arg Gly Lys Val Arg Phe Leu Met Leu
      130      135      140
Val Gly Gly Ser Thr Leu Cys Val Arg Arg Ala Pro Pro Thr Thr Ala
145      150      155      160
Val Pro Ser Arg Thr Ser Leu Val Leu Thr Leu Asn Glu Leu
      165      170

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<210> 69
 <211> 174
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Modified human TPO

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<400> 69
Ser Pro Ala Pro Pro Ala Cys Asp Leu Arg Val Leu Ser Lys Leu Leu
1      5      10      15
Arg Asp Ser His Val Leu His Ser Arg Leu Ser Gln Cys Pro Glu Val
      20      25      30
His Pro Leu Pro Thr Pro Val Leu Leu Pro Ala Val Asp Phe Ser Leu
      35      40      45
Gly Glu Trp Lys Thr Gln Met Glu Glu Thr Lys Ala Gln Asp Ile Leu
      50      55      60
Gly Ala Val Thr Leu Leu Leu Ser Gly Val Met Ala Ala Arg Gly Gln

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```

65      70      75      80
Leu Gly Pro Thr Cys Leu Ser Ser Leu Leu Gly Gln Leu Ser Gly Gln
85
Val Arg Leu Leu Leu Gly Ala Leu Gln Ser Leu Leu Gly Thr Gln Leu
100
Pro Pro Gln Gly Arg Thr Thr Ala His Lys Asp Pro Asn Ala Ile Phe
115
Leu Ser Phe Gln His Leu Leu Arg Gly Lys Val Arg Phe Leu Met Leu
130
Val Gly Gly Ser Thr Leu Cys Val Arg Arg Ala Pro Pro Thr Thr Ala
145
Val Pro Ser Arg Thr Ser Leu Val Leu Thr Leu Asn Glu Leu
165      170

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<210> 70
 <211> 174
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Modified human TPO

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<400> 70
Ser Pro Ala Pro Pro Ala Cys Asp Leu Arg Val Leu Ser Lys Leu Leu
1      5      10      15
Arg Asp Ser His Val Leu His Ser Arg Leu Ser Gln Cys Pro Glu Val
20      25      30
His Pro Leu Pro Thr Pro Val Leu Leu Pro Ala Val Asp Phe Ser Leu
35      40      45
Gly Glu Trp Lys Thr Gln Met Glu Glu Thr Lys Arg Gln Asp Ile Leu
50      55      60
Gly Ala Val Thr Leu Leu Leu Glu Gly Val Met Ala Ala Arg Gly Gln
65      70      75
Leu Gly Pro Thr Cys Leu Ser Ser Leu Leu Gly Gln Leu Ser Gly Gln
85      90      95
Val Arg Leu Leu Leu Gly Ala Leu Gln Ser Leu Leu Gly Thr Gln Leu
100      105      110
Pro Pro Gln Gly Arg Thr Thr Ala His Lys Asp Pro Asn Ala Ile Phe
115      120      125
Leu Ser Phe Gln His Leu Leu Arg Gly Lys Val Arg Phe Leu Met Leu
130      135      140
Val Gly Gly Ser Thr Leu Cys Val Arg Arg Ala Pro Pro Thr Thr Ala
145      150      155
Val Pro Ser Arg Thr Ser Leu Val Leu Thr Leu Asn Glu Leu
165      170

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<210> 71
 <211> 174
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Modified human TPO

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<400> 71
Ser Pro Ala Pro Pro Ala Cys Asp Leu Arg Val Leu Ser Lys Leu Leu

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      1           5           10           15
Arg Asp Ser His Val Leu His Ser Arg Leu Ser Gln Cys Pro Glu Val
      20           25           30
His Pro Leu Pro Thr Pro Val Leu Leu Pro Ala Val Asp Phe Ser Leu
      35           40           45
Gly Glu Trp Lys Thr Gln Lys Glu Glu Thr Lys Arg Gln Asp Ile Leu
      50           55           60
Gly Ala Val Thr Leu Leu Leu Glu Gly Val Met Ala Ala Arg Gly Gln
      65           70           75
Leu Gly Pro Thr Cys Leu Ser Ser Leu Leu Gly Gln Leu Ser Gly Gln
      85           90           95
Val Arg Leu Leu Leu Gly Ala Leu Gln Ser Leu Leu Gly Thr Gln Leu
      100          105          110
Pro Pro Gln Gly Arg Thr Thr Ala His Lys Asp Pro Asn Ala Ile Phe
      115          120          125
Leu Ser Phe Gln His Leu Leu Arg Gly Lys Val Arg Phe Leu Met Leu
      130          135          140
Val Gly Gly Ser Thr Leu Cys Val Arg Arg Ala Pro Pro Thr Thr Ala
      145          150          155
Val Pro Ser Arg Thr Ser Leu Val Leu Thr Leu Asn Glu Leu
      165          170

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<210> 72

<211> 174

<212> PRT

<213> Artificial Sequence

<220>

<223> Modified human TPO

<400> 72

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Ser Pro Ala Pro Pro Ala Cys Asp Leu Arg Val Leu Ser Lys Leu Leu
      1           5           10           15
Arg Asp Ser His Val Leu His Ser Arg Leu Ser Gln Cys Pro Glu Val
      20           25           30
His Pro Leu Pro Thr Pro Val Leu Leu Pro Ala Val Asp Phe Ser Leu
      35           40           45
Gly Glu Trp Lys Thr Gln Lys Glu Glu Thr Lys Arg Gln Asp Ile Leu
      50           55           60
Gly Ala Val Thr Leu Leu Leu Glu Gly Val Met Ala Ala Arg Gly Gln
      65           70           75
Leu Gly Pro Thr Cys Leu Ser Ser Leu Leu Gly Gln Leu Ser Gly Gln
      85           90           95
Val Arg Leu Leu Leu Gly Ala Leu Gln Ser Leu Leu Gly Thr Gln Leu
      100          105          110
Pro Pro Gln Gly Arg Thr Thr Ala His Lys Asp Pro Asn Ala Ile Phe
      115          120          125
Leu Ser Phe Gln His Leu Leu Arg Gly Lys Val Arg Phe Leu Met Leu
      130          135          140
Val Gly Gly Ser Thr Leu Cys Val Arg Arg Ala Pro Pro Thr Thr Ala
      145          150          155
Ala Pro Ser Arg Thr Ser Leu Val Leu Thr Leu Asn Glu Leu
      165          170

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<210> 73

<211> 232

<212> PRT

<213> Artificial Sequence

<220>

<223> Modified human Ig G4 Fc domain

<400> 73

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Glu Pro Lys Ser Ser Asp Lys Thr His Thr Cys Pro Pro Cys Pro Ala
 1          5          10          15
Pro Glu Phe Leu Gly Gly Pro Ser Val Phe Leu Phe Pro Pro Lys Pro
 20          25          30
Lys Asp Thr Leu Met Ile Ser Arg Thr Pro Glu Val Thr Cys Val Val
 35          40          45
Val Asp Val Ser Gln Glu Asp Pro Glu Val Gln Phe Asn Trp Tyr Val
 50          55          60
Asp Gly Val Glu Val His Asn Ala Lys Thr Lys Pro Arg Glu Glu Gln
 65          70          75
Phe Asn Ser Thr Tyr Arg Val Val Ser Val Leu Thr Val Leu His Gln
 85          90          95
Asp Trp Leu Asn Gly Lys Glu Tyr Lys Cys Lys Val Ser Asn Lys Gly
100          105          110
Leu Pro Ser Ser Ile Glu Lys Thr Ile Ser Lys Ala Lys Gly Gln Pro
115          120          125
Arg Glu Pro Gln Val Tyr Thr Leu Pro Pro Ser Gln Glu Glu Met Thr
130          135          140
Lys Asn Gln Val Ser Leu Thr Cys Leu Val Lys Gly Phe Tyr Pro Ser
145          150          155
Asp Ile Ala Val Glu Trp Glu Ser Asn Gly Gln Pro Glu Asn Asn Tyr
165          170          175
Lys Thr Thr Pro Pro Val Leu Asp Ser Asp Gly Ser Phe Phe Leu Tyr
180          185          190
Ser Lys Leu Thr Val Asp Lys Ser Arg Trp Gln Gln Gly Asn Ile Phe
195          200          205
Ser Cys Ser Val Met His Glu Ala Leu His Asn His Tyr Thr Gln Lys
210          215          220
Ser Leu Ser Leu Ser Pro Gly Ala
225          230

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<210> 74

<211> 15

<212> PRT

<213> homo sapiens

<400> 74

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Ser Pro Ala Pro Pro Ala Cys Asp Leu Arg Val Leu Ser Lys Leu
 1          5          10          15

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<210> 75

<211> 15

<212> PRT

<213> homo sapiens

<400> 75

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Pro Pro Ala Cys Asp Leu Arg Val Leu Ser Lys Leu Leu Arg Asp
 1          5          10          15

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<210> 76
<211> 15
<212> PRT
<213> homo sapiens

<400> 76
Cys Asp Leu Arg Val Leu Ser Lys Leu Leu Arg Asp Ser His Val
1 5 10 15

<210> 77
<211> 15
<212> PRT
<213> homo sapiens

<400> 77
Arg Val Leu Ser Lys Leu Leu Arg Asp Ser His Val Leu His Ser
1 5 10 15

<210> 78
<211> 15
<212> PRT
<213> homo sapiens

<400> 78
Ser Lys Leu Leu Arg Asp Ser His Val Leu His Ser Arg Leu Ser
1 5 10 15

<210> 79
<211> 15
<212> PRT
<213> homo sapiens

<400> 79
Leu Arg Asp Ser His Val Leu His Ser Arg Leu Ser Gln Cys Pro
1 5 10 15

<210> 80
<211> 15
<212> PRT
<213> homo sapiens

<400> 80
Ser His Val Leu His Ser Arg Leu Ser Gln Cys Pro Glu Val His
1 5 10 15

<210> 81
<211> 15
<212> PRT
<213> homo sapiens

<400> 81
Leu His Ser Arg Leu Ser Gln Cys Pro Glu Val His Pro Leu Pro
1 5 10 15

<210> 82
<211> 15
<212> PRT
<213> homo sapiens

<400> 82
Arg Leu Ser Gln Cys Pro Glu Val His Pro Leu Pro Thr Pro Val
1 5 10 15

<210> 83
<211> 15
<212> PRT
<213> homo sapiens

<400> 83
Gln Cys Pro Glu Val His Pro Leu Pro Thr Pro Val Leu Leu Pro
1 5 10 15

<210> 84
<211> 15
<212> PRT
<213> homo sapiens

<400> 84
Glu Val His Pro Leu Pro Thr Pro Val Leu Leu Pro Ala Val Asp
1 5 10 15

<210> 85
<211> 15
<212> PRT
<213> homo sapiens

<400> 85
Pro Leu Pro Thr Pro Val Leu Leu Pro Ala Val Asp Phe Ser Leu
1 5 10 15

<210> 86
<211> 15
<212> PRT
<213> homo sapiens

<400> 86
Thr Pro Val Leu Leu Pro Ala Val Asp Phe Ser Leu Gly Glu Trp
1 5 10 15

<210> 87
<211> 15
<212> PRT
<213> homo sapiens

<400> 87
Leu Leu Pro Ala Val Asp Phe Ser Leu Gly Glu Trp Lys Thr Gln

1	5	10	15
<210> 88			
<211> 15			
<212> PRT			
<213> homo sapiens			
<400> 88			
Ala Val Asp Phe Ser	Leu Gly Glu Trp	Lys Thr Gln Met	Glu Glu
1	5	10	15
<210> 89			
<211> 15			
<212> PRT			
<213> homo sapiens			
<400> 89			
Phe Ser Leu Gly Glu	Trp Lys Thr Gln	Met Glu Glu Thr	Lys Ala
1	5	10	15
<210> 90			
<211> 15			
<212> PRT			
<213> homo sapiens			
<400> 90			
Gly Glu Trp Lys Thr	Gln Met Glu Glu	Thr Lys Ala Gln	Asp Ile
1	5	10	15
<210> 91			
<211> 15			
<212> PRT			
<213> homo sapiens			
<400> 91			
Lys Thr Gln Met Glu	Glu Thr Lys Ala	Gln Asp Ile Leu	Gly Ala
1	5	10	15
<210> 92			
<211> 15			
<212> PRT			
<213> homo sapiens			
<400> 92			
Met Glu Glu Thr Lys	Ala Gln Asp Ile	Leu Gly Ala Val	Thr Leu
1	5	10	15
<210> 93			
<211> 15			
<212> PRT			
<213> homo sapiens			

<400> 93
Thr Lys Ala Gln Asp Ile Leu Gly Ala Val Thr Leu Leu Leu Glu
1 5 10 15

<210> 94
<211> 15
<212> PRT
<213> homo sapiens

<400> 94
Gln Asp Ile Leu Gly Ala Val Thr Leu Leu Leu Glu Gly Val Met
1 5 10 15

<210> 95
<211> 15
<212> PRT
<213> homo sapiens

<400> 95
Leu Gly Ala Val Thr Leu Leu Leu Glu Gly Val Met Ala Ala Arg
1 5 10 15

<210> 96
<211> 15
<212> PRT
<213> homo sapiens

<400> 96
Val Thr Leu Leu Leu Glu Gly Val Met Ala Ala Arg Gly Gln Leu
1 5 10 15

<210> 97
<211> 15
<212> PRT
<213> homo sapiens

<400> 97
Leu Leu Glu Gly Val Met Ala Ala Arg Gly Gln Leu Gly Pro Thr
1 5 10 15

<210> 98
<211> 15
<212> PRT
<213> homo sapiens

<400> 98
Gly Val Met Ala Ala Arg Gly Gln Leu Gly Pro Thr Cys Leu Ser
1 5 10 15

<210> 99
<211> 15
<212> PRT

<213> homo sapiens

<400> 99

Ala Ala Arg Gly Gln Leu Gly Pro Thr Cys Leu Ser Ser Leu Leu
1 5 10 15

<210> 100

<211> 15

<212> PRT

<213> homo sapiens

<400> 100

Gly Gln Leu Gly Pro Thr Cys Leu Ser Ser Leu Leu Gly Gln Leu
1 5 10 15

<210> 101

<211> 15

<212> PRT

<213> homo sapiens

<400> 101

Gly Pro Thr Cys Leu Ser Ser Leu Leu Gly Gln Leu Ser Gly Gln
1 5 10 15

<210> 102

<211> 15

<212> PRT

<213> homo sapiens

<400> 102

Cys Leu Ser Ser Leu Leu Gly Gln Leu Ser Gly Gln Val Arg Leu
1 5 10 15

<210> 103

<211> 15

<212> PRT

<213> homo sapiens

<400> 103

Ser Leu Leu Gly Gln Leu Ser Gly Gln Val Arg Leu Leu Leu Gly
1 5 10 15

<210> 104

<211> 15

<212> PRT

<213> homo sapiens

<400> 104

Gly Gln Leu Ser Gly Gln Val Arg Leu Leu Leu Gly Ala Leu Gln
1 5 10 15

<210> 105

<211> 15
<212> PRT
<213> homo sapiens

<400> 105
Ser Gly Gln Val Arg Leu Leu Leu Gly Ala Leu Gln Ser Leu Leu
1 5 10 15

<210> 106
<211> 15
<212> PRT
<213> homo sapiens

<400> 106
Val Arg Leu Leu Leu Gly Ala Leu Gln Ser Leu Leu Gly Thr Gln
1 5 10 15

<210> 107
<211> 15
<212> PRT
<213> homo sapiens

<400> 107
Leu Leu Gly Ala Leu Gln Ser Leu Leu Gly Thr Gln Leu Pro Pro
1 5 10 15

<210> 108
<211> 15
<212> PRT
<213> homo sapiens

<400> 108
Ala Leu Gln Ser Leu Leu Gly Thr Gln Leu Pro Pro Gln Gly Arg
1 5 10 15

<210> 109
<211> 15
<212> PRT
<213> homo sapiens

<400> 109
Ser Leu Leu Gly Thr Gln Leu Pro Pro Gln Gly Arg Thr Thr Ala
1 5 10 15

<210> 110
<211> 15
<212> PRT
<213> homo sapiens

<400> 110
Gly Thr Gln Leu Pro Pro Gln Gly Arg Thr Thr Ala His Lys Asp
1 5 10 15

<210> 111
<211> 15
<212> PRT
<213> homo sapiens

<400> 111
Leu Pro Pro Gln Gly Arg Thr Thr Ala His Lys Asp Pro Asn Ala
1 5 10 15

<210> 112
<211> 15
<212> PRT
<213> homo sapiens

<400> 112
Gln Gly Arg Thr Thr Ala His Lys Asp Pro Asn Ala Ile Phe Leu
1 5 10 15

<210> 113
<211> 15
<212> PRT
<213> homo sapiens

<400> 113
Thr Thr Ala His Lys Asp Pro Asn Ala Ile Phe Leu Ser Phe Gln
1 5 10 15

<210> 114
<211> 15
<212> PRT
<213> homo sapiens

<400> 114
His Lys Asp Pro Asn Ala Ile Phe Leu Ser Phe Gln His Leu Leu
1 5 10 15

<210> 115
<211> 15
<212> PRT
<213> homo sapiens

<400> 115
Pro Asn Ala Ile Phe Leu Ser Phe Gln His Leu Leu Arg Gly Lys
1 5 10 15

<210> 116
<211> 15
<212> PRT
<213> homo sapiens

<400> 116
Ile Phe Leu Ser Phe Gln His Leu Leu Arg Gly Lys Val Arg Phe
1 5 10 15

<210> 117
<211> 15
<212> PRT
<213> homo sapiens

<400> 117
Ser Phe Gln His Leu Leu Arg Gly Lys Val Arg Phe Leu Met Leu
1 5 10 15

<210> 118
<211> 15
<212> PRT
<213> homo sapiens

<400> 118
His Leu Leu Arg Gly Lys Val Arg Phe Leu Met Leu Val Gly Gly
1 5 10 15

<210> 119
<211> 15
<212> PRT
<213> homo sapiens

<400> 119
Arg Gly Lys Val Arg Phe Leu Met Leu Val Gly Gly Ser Thr Leu
1 5 10 15

<210> 120
<211> 15
<212> PRT
<213> homo sapiens

<400> 120
Val Arg Phe Leu Met Leu Val Gly Gly Ser Thr Leu Cys Val Arg
1 5 10 15

<210> 121
<211> 15
<212> PRT
<213> homo sapiens

<400> 121
Leu Met Leu Val Gly Gly Ser Thr Leu Cys Val Arg Arg Ala Pro
1 5 10 15

<210> 122
<211> 15
<212> PRT
<213> homo sapiens

<400> 122
Val Gly Gly Ser Thr Leu Cys Val Arg Arg Ala Pro Pro Thr Thr

1	5	10	15
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<210> 123
 <211> 15
 <212> PRT
 <213> homo sapiens

<400> 123
 Ser Thr Leu Cys Val Arg Arg Ala Pro Pro Thr Thr Ala Val Pro
 1 5 10 15

<210> 124
 <211> 15
 <212> PRT
 <213> homo sapiens

<400> 124
 Cys Val Arg Arg Ala Pro Pro Thr Thr Ala Val Pro Ser Arg Thr
 1 5 10 15

<210> 125
 <211> 15
 <212> PRT
 <213> homo sapiens

<400> 125
 Arg Ala Pro Pro Thr Thr Ala Val Pro Ser Arg Thr Ser Leu Val
 1 5 10 15

<210> 126
 <211> 15
 <212> PRT
 <213> homo sapiens

<400> 126
 Pro Thr Thr Ala Val Pro Ser Arg Thr Ser Leu Val Leu Thr Leu
 1 5 10 15

<210> 127
 <211> 15
 <212> PRT
 <213> homo sapiens

<400> 127
 Ala Val Pro Ser Arg Thr Ser Leu Val Leu Thr Leu Asn Glu Leu
 1 5 10 15

<210> 128
 <211> 15
 <212> PRT
 <213> homo sapiens

<400> 128

Ser Arg Thr Ser Leu Val Leu Thr Leu Asn Glu Leu Pro Asn Arg
1 5 10 15

<210> 129

<211> 27

<212> PRT

<213> Artificial Sequence

<220>

<223> Modified human TPO

<400> 129

Gly Glu Trp Lys Thr Gln Lys Glu Glu Thr Lys Ala Gln Asp Ile Leu
1 5 10 15
Gly Ala Val Thr Leu Leu Leu Glu Gly Val Met
20 25

<210> 130

<211> 27

<212> PRT

<213> Artificial Sequence

<220>

<223> Modified human TPO

<400> 130

Gly Glu Trp Lys Thr Gln Met Glu Glu Arg Lys Ala Gln Asp Ile Leu
1 5 10 15
Gly Ala Val Thr Leu Leu Leu Glu Gly Val Met
20 25

<210> 131

<211> 27

<212> PRT

<213> Artificial Sequence

<220>

<223> Modified human TPO

<400> 131

Gly Glu Trp Lys Thr Gln Met Glu Glu Thr Lys Arg Gln Asp Ile Leu
1 5 10 15
Gly Ala Val Thr Leu Leu Leu Glu Gly Val Met
20 25

<210> 132

<211> 27

<212> PRT

<213> Artificial Sequence

<220>

<223> Modified human TPO

<400> 132
Gly Glu Trp Lys Thr Gln Met Glu Glu Thr Lys Ala Gln Arg Ile Leu
1 5 10 15
Gly Ala Val Thr Leu Leu Leu Glu Gly Val Met
20 25

<210> 133
<211> 27
<212> PRT
<213> Artificial Sequence

<220>
<223> Modified human TPO

<400> 133
Gly Glu Trp Lys Thr Gln Met Glu Glu Thr Lys Ala Gln Asp Ile Leu
1 5 10 15
Gly Ala Val Thr Ala Leu Leu Glu Gly Val Met
20 25

<210> 134
<211> 27
<212> PRT
<213> Artificial Sequence

<220>
<223> Modified human TPO

<400> 134
Gly Glu Trp Lys Thr Gln Met Glu Glu Thr Lys Ala Gln Asp Ile Leu
1 5 10 15
Gly Ala Val Thr Leu Ala Leu Glu Gly Val Met
20 25

<210> 135
<211> 15
<212> PRT
<213> Artificial Sequence

<220>
<223> Modified human TPO

<400> 135
Pro Thr Thr Ala Ala Pro Ser Arg Thr Ser Leu Val Leu Thr Leu
1 5 10 15

<210> 136
<211> 15
<212> PRT
<213> Artificial Sequence

<220>
<223> Modified human TPO

<400> 136
Pro Thr Thr Ala Asn Pro Ser Arg Thr Ser Leu Val Leu Thr Leu
1 5 10 15

<210> 137
<211> 15
<212> PRT
<213> Artificial Sequence

<220>
<223> Modified human TPO

<400> 137
Pro Thr Thr Ala Arg Pro Ser Arg Thr Ser Leu Val Leu Thr Leu
1 5 10 15

<210> 138
<211> 15
<212> PRT
<213> Artificial Sequence

<220>
<223> Modified human TPO

<400> 138
Pro Thr Thr Ala Thr Pro Ser Arg Thr Ser Leu Val Leu Thr Leu
1 5 10 15